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230259

6 November 2001

Mr. Scott Hansen, SR-6J
Work Assignment Manager
U.S. Environmental Protection Agency
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

U.S. EPA Contract No.: 68-W7-0026
Work Assignment No.: 114-RXBF-0573
Document Control No.: RFW114-2B-AKAI

Re: Oversight Report for the Oversight Provided from 10 August through 5 October 2001
Skinner Landfill, West Chester, Ohio

Dear Mr. Hansen:

Roy F. Weston, Inc. (WESTON®) is pleased to submit the first periodic report for the oversight provided from 10 August through 5 October 2001.

Should you have any questions or require additional information, please feel free to contact me at (847) 918-4051.

Very truly yours,

ROY F. WESTON, INC.

Omprakash S. Patel.
Site Manager

OSP/ld



**REMEDIAL ACTION OVERSIGHT
PERIODIC REPORT
SKINNER LANDFILL
WEST CHESTER, OHIO
(10 AUGUST THROUGH 5 OCTOBER 2001)**

September 2001

Prepared for

U.S. Environmental Protection Agency
77 West Jackson Boulevard
Chicago, Illinois 60604

This document was prepared in accordance with U.S. EPA Contract No. 68-W7-0026, WESTON Region V Response Action Contract (RAC) and contains confidential business information.

Document Control No. RFW114-2B-AKAI

**REMEDIAL ACTION OVERSIGHT
PERIODIC REPORT
10 AUGUST 2001 THROUGH 5 OCTOBER 2001
SKINNER LANDFILL
WEST CHESTER, OHIO**

This report summarizes the oversight of construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio for the period 10 August 2001 through 5 October 2001. Earth-Tech and its subcontractors are completing construction implementation and remedial action at the site. The primary subcontractors to date include Pro-Terra, Geo-Solutions, Inc., David E. Estes Engineering, Burgess and Niple Engineering and Architecture, Alt and Witzig Engineering, Bowser-Morner Drilling, MidAmerica Liner Company (MidAmerica Liner), Hilvert and Pope Electrical Contractors, and Superior Environmental Services. Roy F. Weston, Inc. (WESTON®) is providing oversight. Photo documentation and copies of field log notes are attached. Field activities at the site are being performed with the purpose of implementing the U.S. Environmental Protection Agency (U.S. EPA)-approved Constructing Implementation and Remedial Action Plans. The plans include the design and construction of a landfill cap system; biopolymer slurry drainage interceptor trench; soil-bentonite slurry trench cut-off wall; force main system; extraction well and observation well network; passive gas vents; and piezometer system.

10 August 2001 (Friday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther (Earth Tech)
Joe Kruger (Earth Tech)
Earth Tech additional employees
Pro-Terra employees
Henry Steinbaugh (MidAmerica Liner Company)
MidAmerica Liner Company additional employees
David E. Estes Engineering, Inc., employees (surveyors)
Burgess and Niple (surveyors)
Alt and Witzig Engineers employees
Hilvert and Pope (electrical contractors)
Michael A. Brady (WESTON)

GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION

Pro-Terra was on-site to continue construction of the force main system. Likewise, Hilvert and Pope (electrical contractors) was on-site to install the electrical conduit and make the electrical connections to the system. Force main system construction began near extraction well No. 3 at the west end of interceptor trench No. 3.

Three inspection manholes and the force main vault were installed in the 4-foot deep trench near interceptor trench No. 3. The trench was advanced to the east end of interceptor trench No. 3. Compacted granular backfill and sand bedding were used to stabilize the inspection manholes and the three force main conduits, respectively. A flow meter and butterfly valves were installed in the force main line. The electrical conduit and the communications conduit were also installed in the trench.

LANDFILL CAP CONSTRUCTION

Earth Tech continued sub-base preparation to the west of the installed liner and along the south landfill slopes in preparation for liner installation. The anchor trench was backfilled where liner deployment was completed. Moreover, several of the booted gas vents were rotated off-vertical due to expansion and contraction of the linear low density polyethylene (LLDPE). Both the MidAmerica Liner Quality Control (QC) Manager and Earth Tech's Construction Quality Assurance (CQA) Manager agreed that the sub-base west of the deployed liner was not ready for further liner deployment. Earth Tech subsequently excavated this area to allow the soil to dry out. Additionally, rocks, sticks and debris were removed as part of the sub-base preparation, and soil compaction was completed. The sub-base preparation was not far enough ahead of MidAmerica Liner to deploy any of the landfill liner material. Twelve MidAmerica Liner workers signed in on the daily log.

HEALTH AND SAFETY

Heat stroke, heat rash, and heat exhaustion are common health and safety hazards during the summer at the site. Most of the contractors were outside with little or no cover for extended periods. Also, most of the MidAmerica Liner workers do not speak fluent English and may not be able to clearly understand the health and safety plan or communicate health and safety concerns in the field unless an interpreter is available. However, three of the workers do speak English and often interpret for the others.

Slipping, tripping and falling, working around heavy equipment, and heat stress were the most common health and safety hazards at the site.

OTHER ACTIVITIES/ISSUES

Materials for the gabion baskets were delivered today. Earth Tech began putting together the gabion baskets.

Burgess and Niple Engineering and Architecture, Inc., was on-site to replace David E. Estes Engineering, Inc., as the contract surveyors for the project.

During the oversight WESTON, did not see any deviation from the U.S. EPA-approved planning documents.

13 August 2001 (Monday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther (Earth Tech)
Earth Tech, additional employees
Pro-Terra employees
Henry Steinbaugh (MidAmerica Liner Company)
MidAmerica Liner Company additional employees
David E. Estes Engineering, Inc., employees (surveyors)
Burgess and Niple (surveyors)
Alt and Witzig Engineers employees
Michael A. Brady (WESTON)

GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION

Pro-Terra continued construction of the force main system. Force main system construction began near extraction well No. 3 at the west end of interceptor trench No. 3. Heavy rain over the weekend caused the force main trench to partially fill with water.

A trench was advanced to the west end of interceptor trench No. 2. Compacted granular backfill and sand bedding were used to stabilize the inspection manholes and the three force main conduits, respectively. A flow meter and butterfly valves were installed in the force main line. The electrical conduit and the communications conduit were installed in the trench also.

LANDFILL CAP CONSTRUCTION

Earth Tech continued sub-base preparation to the west of the installed liner and along the south landfill slopes in preparation for liner installation. Heavy rain over the weekend created some pooling north of the deployed liner on top of the landfill. Earth Tech turned the soil over in this area to allow it to dry. Additionally, rocks, sticks, and debris were removed as part of the sub-base preparation, and soil compaction was completed. The sub-base preparation was not far enough ahead of MidAmerica Liner to deploy any of the landfill liner material. MidAmerica Liner relocated their staging area to the center of the landfill. By the end of the day, Earth Tech had prepared the sub-base for liner deployment. Twelve MidAmerica Liner workers signed in on the daily log.

SURFACE WATER MONITORING and SAMPLING

Earth Tech completed surface water run-off sampling at two different locations along the south property boundary of the site.

HEALTH and SAFETY

The health and safety hazards are same as those identified in the 10 August 2001 summary.

OTHER ACTIVITIES/ISSUES

Earth Tech installed the bedding material and constructed four gabion baskets along the east fork of Mill Creek bank, near interceptor trench No. 2.

During the oversight, WESTON did not see any deviation from the U.S. EPA-approved planning documents.

14 August 2001 (Tuesday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther (Earth Tech)
Earth Tech additional employees
Pro-Terra employees
Henry Steinbaugh (MidAmerica Liner Company)
MidAmerica Liner Company additional employees
David E. Estes Engineering, Inc., employees (surveyors)
Burgess and Niple (surveyors)
Alt and Witzig Engineers employees
Hilvert & Pope (electrical contractors)

Michael A. Brady (WESTON)

GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION

Pro-Terra was on-site to continue construction of the force main system. Force main system construction began near extraction well No. 3 at the west end of interceptor trench No. 3. Heavy rain over the weekend caused the force main trench to partially fill with water. The trench, manhole, and force main vault near interceptor trench No. 3 were filled with run-off water or leachate.

Three inspection manholes and the force main vault were installed in the 4-foot deep trench near interceptor trench No. 3. The trench was advanced to the west end of interceptor trench No. 1 where it is tied into the 8-inch-diameter extraction well. Compacted granular backfill and sand bedding were used to stabilize the inspection manholes and the three force main conduits, respectively. The electrician from Hilvert & Pope installed the electrical conduit and the communications conduit in the trench.

LANDFILL CAP CONSTRUCTION

Earth Tech continued sub-base preparation to the west-northwest of the installed liner and along the south landfill slopes in preparation for liner installation. Earth Tech turned the soil over near the former 55-gallon drum staging area to allow it to dry. Additionally, rocks, sticks, and debris were removed as part of the sub-base preparation, and soil compaction was completed. MidAmerica Liner deployed a geosynthetic clay liner (GCL) near the south borrow area and covered the GCL with the LLDPE. Earth Tech has prepared the sub-base well ahead of MidAmerica Liner. Joe Kruger (CQA) estimates the work to take two more weeks to complete if the weather cooperates. Also, the CQA mentioned that the final soil cover is needed for installation over the exposed geocomposite within approximately 15 days because of potential UV degradation to the liner. Fifteen MidAmerica Liner workers signed in on the daily log.

HEALTH and SAFETY

The health and safety hazards are same as those identified in the 10 August 2001 summary.

OTHER ACTIVITIES/ISSUES

Earth Tech continued to install the bedding material and gabion baskets at the cut bank along the east fork of Mill Creek near interceptor trench No. 2. The work was labor intensive and required a heavy equipment operator, a survey crew, and three to four individuals to stack and maintain the gabion baskets as they were filled with crushed stone.

During the oversight, WESTON did not see any deviation from the U.S. EPA-approved planning documents.

15 August 2001(Wednesday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther (Earth Tech)
Rick Warwick (Earth Tech)
Earth Tech additional employees
Pro-Terra employees
Henry Steinbaugh (MidAmerica Liner Company)

MidAmerica Liner Company additional employees
David E. Estes Engineering, Inc., employees (surveyors)
Burgess and Niple (surveyors)
Alt and Witzig Engineers employees
Hilvert & Pope (electrical contractors)
Michael A. Brady (WESTON)

GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION

Pro-Terra was on-site to continue construction of the force main system. The trench was advanced to the west end of interceptor trench No. 1 where it is tied into the 8-inch-diameter extraction well. Compacted granular backfill and sand bedding were used to stabilize the inspection manholes and the three force main conduits, respectively. The electrician from Hilvert & Pope installed the electrical conduit and the communications conduit in the trench. Additionally, Pro-Terra dewatered the force main trench near extraction wells No. 1 and No. 2.

LANDFILL CAP CONSTRUCTION

Earth Tech continued sub-base preparation along the northern temporary access road and west of the deployed liner. Earth Tech also continued to prepare the soil near the former 55-gallon drum staging area. MidAmerica Liner deployed GCL near the south borrow area and geocomposite on the northern temporary access road. Fifteen MidAmerica Liner workers signed in on the daily log.

HEALTH and SAFETY

The health and safety hazards are same as those identified in the 10 August 2001 summary.

OTHER ACTIVITIES/ISSUES

Earth Tech continued to install the bedding material and gabion baskets at the cut bank along the East Fork of Mill Creek near interceptor trench No. 2. The work was labor intensive and required a heavy equipment operator, a survey crew, and three to four individuals to stack and maintain the gabion baskets as they were filled with crushed stone.

During the oversight, WESTON did not see any deviation from the U.S. EPA-approved planning documents.

16 August 2001 (Thursday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther (Earth Tech)
Earth Tech, additional employees
Pro-Terra employees
Henry Steinbaugh (MidAmerica Liner Company)
MidAmerica Liner Company additional employees
David E. Estes Engineering, Inc., employees (surveyors)
Burgess and Niple (surveyors)
Alt and Witzig Engineers employees
Hilvert & Pope (electrical contractors)
Michael A. Brady (WESTON)

GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION

Pro-Terra was on-site to continue construction of the force main system. Conduit was installed in the trench for the force main system. Likewise, the electrician from Hilvert & Pope installed the electrical conduit and the communications conduit in the trench.

LANDFILL CAP CONSTRUCTION

Earth Tech continued sub-base preparation in the general vicinity of the former 55-gallon drum staging area. MidAmerica Liner completed detail work at the north temporary access road and near the south borrow area. Approximately 1/2 of the deployed LLDPE needed to be detailed by MidAmerica Liner before deploying the top geocomposite drainage layer. Fifteen MidAmerica Liner workers signed in on the daily log.

HEALTH and SAFETY

The health and safety hazards are same as those identified in the 10 August 2001 summary.

OTHER ACTIVITIES/ISSUES

Earth Tech continued to install the bedding material and gabion baskets at the cut bank along the East Fork of Mill Creek near interceptor trench No. 2. The work was labor intensive and required a heavy equipment operator, a survey crew, and three to four individuals to stack and maintain the gabion baskets as they were filled with crushed stone.

During the oversight, WESTON did not see any deviation from the U.S. EPA-approved planning documents.

17 August 2001 (Friday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther (Earth Tech)
Rick Warwick (Earth Tech)
Earth Tech additional employees
Henry Steinbaugh (MidAmerica Liner Company)
MidAmerica Liner Company additional employees
David E. Estes Engineering, Inc., employees (surveyors)
Burgess and Niple (surveyors)
Alt and Witzig Engineers employees
Michael A. Brady (WESTON)

LANDFILL CAP CONSTRUCTION

Earth Tech continued sub-base preparation on top of the landfill. MidAmerica Liner Co. completed the detail work on the LLDPE at the northern temporary access road between gas vents GV-2 and GV-3. Fifteen MidAmerica Liner workers signed in on the daily log.

HEALTH and SAFETY

The health and safety hazards are same as identified in the 10 August 2001 summary.

OTHER ACTIVITIES/ISSUES

Earth Tech accidentally ran over and damaged the east 8-inch-diameter monitoring well installed in interceptor trench No. 2 during the installation of bedding material and gabion baskets at the cut bank along the east fork of Mill Creek near interceptor trench No. 2. The work was labor intensive and required a heavy equipment operator, a survey crew, and three to four individuals to stack and maintain the gabion baskets as they were filled with crushed stone.

During the oversight, WESTON did not see any deviation from the U.S. EPA-approved planning documents.

20 August 2001 (Monday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther (Earth Tech)
Earth Tech, additional employees
Pro-Terra employees
Henry Steinbaugh (MidAmerica Liner Company)
MidAmerica Liner Company additional employees
David E. Estes Engineering, Inc., employees (surveyors)
Burgess and Niple (surveyors)
Alt and Witzig Engineers employees
Hilvert & Pope (electrical contractors)
Mark Weidner (WESTON)

GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION

Pro-Terra was on-site to continue construction of the force main system. The electrician from Hilvert & Pope continued to install the electrical conduit and the communications conduit in the trench. Additionally, Pro Terra dewatered the junction vault on the west side of the landfill.

LANDFILL CAP CONSTRUCTION

Earth Tech continued sub-base preparation and repair work on top of the landfill. Repair work was needed due to the heavy rain over the weekend. Earth Tech also constructed an access/haul road along the east side of the landfill so that the 2-foot soil lifts could be installed on top of the liner. No new liner was deployed because of the poor sub-base conditions. MidAmerica Liner removed portions of the GCL because it became saturated from the heavy rain. Additionally, MidAmerica Liner repaired some of the deployed LLDPE and installed slip boots on the gas vents and piezometers.

CONTAMINATED SOIL EXCAVATION AREAS

Earth Tech over excavated the contaminated soil area BP-01/BP-02. Earth Tech collected confirmation soil samples along the south-southwest sidewalls and bottom. The excavation remained open. The excavation will subsequently be backfilled with soil from the landfill borrow areas in accordance with Section 2.2 of the Remedial Action Field Sampling Plan.

HEALTH and SAFETY

The health and safety hazards are same as those identified in the 10 August 2001 summary.

OTHER ACTIVITIES/ISSUES

Earth Tech continued to install bedding material and gabion baskets at the cut bank along the East Fork of Mill Creek near interceptor trench No. 2. The work was labor intensive and required a heavy equipment operator, a survey crew, and three to four individuals to stack and maintain the gabion baskets as they were filled with crushed stone.

During the oversight, WESTON did not see any deviation from the U.S. EPA-approved planning documents.

21 August 2001(Tuesday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther (Earth Tech)
Earth Tech additional employees
Pro-Terra employees
Henry Steinbaugh (MidAmerica Liner Company)
MidAmerica Liner Company additional employees
David E. Estes Engineering, Inc., employees (surveyors)
Burgess and Niple (surveyors)
Alt and Witzig Engineers employees
Hilvert & Pope (electrical contractors)
Mark Weidner (WESTON)

GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION

Pro-Terra was on-site to continue construction of the force main system and to conduct hydrostatic tests on the force main system and leachate line. The electrician from Hilvert & Pope continued to install the electrical conduit and the communications conduit in the trench. Additionally, Pro-Terra dewatered the junction vault on the west side of the landfill.

LANDFILL CAP CONSTRUCTION

Earth Tech continued sub-base preparation and repair work on top of the landfill. Repair work was needed due to the heavy rain over the weekend. MidAmerica Liner deployed approximately 360 feet by 112 feet of geocomposite and GCL. Earth Tech also covered approximately 30% of the liner with the vegetative layer near the northern borrow area.

HEALTH and SAFETY

The health and safety hazards are same as identified in the 10 August 2001 summary.

OTHER ACTIVITIES/ISSUES

Earth Tech continued to install bedding material and gabion baskets at the cut bank along the east fork of Mill Creek near interceptor trench No. 2. The work was labor intensive and required a heavy equipment operator, a survey crew, and three to four individuals to stack and maintain the gabion baskets as they were filled with crushed stone. Approximately 80 feet of the gabion wall has been constructed thus far.

During the oversight, WESTON did not see any deviation from the U.S. EPA-approved planning documents.

22 August 2001 (Wednesday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Scott Hansen (U.S. EPA)
Ben Baker, (PRP) (DOW SLG)
Tim Auch, PRP oversight contractor (Westech)
Rick Warwick (Earth Tech)
Ron Roelker (Earth Tech)
Jason Guenther (Earth Tech)
Earth Tech additional employees
Henry Steinbaugh (MidAmerica Liner Company)
Mark Weidner (WESTON)

A progress meeting was held at the site trailer. Present at the meeting were Scott Hansen (U.S. EPA Remedial Project Manager); Ben Baker (DOW; PRP) and his contractor from Westech (Tim Auch); Ron Roelker, Jason Guenther, and Rick Warwick of Earth Tech; Henry Steinbaugh of MidAmerica Liner, and Mark Weidner (oversight contractor to the U.S. EPA).

23 August 2001 (Thursday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther (Earth Tech)
Earth Tech additional employees
Pro-Terra employees
Henry Steinbaugh (MidAmerica Liner Company)
MidAmerica Liner Company additional employees
David E. Estes Engineering, Inc., employees (surveyors)
Burgess and Niple (surveyors)
Alt and Witzig Engineers employees
Hilvert & Pope (electrical contractors)
Mark Weidner (WESTON)

GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION

Pro-Terra was on-site to complete the construction of the force main system. The electrician from Hilvert & Pope completed the installation of the electrical conduit and the communications conduit in the trench.

LANDFILL CAP CONSTRUCTION

Earth Tech continued sub-base preparation on top of the landfill. Additionally, Earth Tech covered portions of the liner with the vegetative layer near the northern borrow area and along the east side of the landfill.

HEALTH and SAFETY

The health and safety hazards are same as those identified in the 10 August 2001 summary.

OTHER ACTIVITIES

Earth Tech completed the installation of the bedding material and gabion baskets at the cut bank along the East Fork of Mill Creek near interceptor trench No. 2. The work was labor intensive and required a heavy equipment operator, a survey crew, and three to four individuals to stack and maintain the gabion baskets as they were filled with crushed stone.

During the oversight, WESTON did not see any deviation from the U.S. EPA-approved planning documents.

27 August 2001 (Monday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther (Earth Tech)
Earth Tech additional employees
Pro-Terra employees
Henry Steinbaugh (MidAmerica Liner Company)
MidAmerica Liner Company additional employees
David E. Estes Engineering, Inc., employees (surveyors)
Burgess and Niple (surveyors)
Alt and Witzig Engineers employees
Hilvert & Pope (electrical contractors)
Michael A. Brady (WESTON)

GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION

Pro-Terra was on-site to working on the force main vault and manholes. Pro-Terra also repaired the eastern 8-inch-diameter observation well at interceptor trench No. 2.

LANDFILL CAP CONSTRUCTION

MidAmerica Liner, has covered approximately 90% of the landfill with liner material. Earth Tech continued sub-base preparation on top of the landfill. Additionally, Earth Tech covered portions of the liner with the vegetative layer near the northern borrow area and along the east side of the landfill.

HEALTH and SAFETY

The health and safety hazards are same as those identified in the 10 August 2001 summary.

OTHER ACTIVITIES/ISSUES

None.

During the oversight, WESTON did not see any deviation from the U.S. EPA-approved planning documents.

29 August 2001 (Wednesday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther (Earth Tech)
Earth Tech additional employees
Pro-Terra employees
Henry Steinbaugh (MidAmerica Liner Company)
MidAmerica Liner Company additional employees
David E. Estes Engineering, Inc., employees (surveyors)
Burgess and Niple (surveyors)
Alt and Witzig Engineers employees
Hilvert & Pope (electrical contractors)
Michael A. Brady (WESTON)

GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION

Pro-Terra was on-site to working on the force main vault and manholes. Covers were installed on each of the manholes and the vault.

LANDFILL CAP CONSTRUCTION

MidAmerica Liner completed the detail work (grinding, welding, "V" box, slip boots, shear and peel tests, etc.) on the LLDPE at the northwest side of the landfill. MidAmerica Liner has covered approximately 95% of the landfill with liner material. Earth Tech continued sub-base preparation on top of the landfill. Additionally, Earth Tech covered portions of the liner with the vegetative layer near the northern borrow area and along the eastern side of the landfill.

HEALTH and SAFETY

The health and safety hazards are same as those identified in the 10 August 2001 summary.

OTHER ACTIVITIES/ISSUES

None.

During the oversight, WESTON did not see any deviation from the U.S. EPA-approved planning documents.

30 August 2001 (Thursday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther (Earth Tech)
Earth Tech additional employees
Pro-Terra employees
Henry Steinbaugh (MidAmerica Liner Company)
MidAmerica Liner Company additional employees
David E. Estes Engineering, Inc., employees (surveyors)
Burgess and Niple (surveyors)
Alt and Witzig Engineers employees

Hilvert & Pope (electrical contractors)
Omprakash Patel (WESTON)
Michael A. Brady (WESTON)

LANDFILL CAP CONSTRUCTION

MidAmerica Liner completed the detail work (grinding, welding, "V" box, slip boots, shear and peel tests, etc.) on the LLDPE at the northwest side of the landfill. MidAmerica Liner completely covered the landfill with liner material. Detail work is yet to be completed on the recently deployed and exposed LLDPE. Earth Tech continued sub-base preparation on top of the landfill ahead of the liner crew. Additionally, Earth Tech covered portions of the liner with the vegetative layer near the northern borrow area and along the eastern side of the landfill.

HEALTH and SAFETY

Often, the MidAmerica Liner crew has not worn hard hats or safety glasses while deploying the liner material.

Other health and safety hazards are same as those identified in the 10 August 2001 summary.

OTHER ACTIVITIES/ISSUES

Om Patel and Michael A. Brady spoke with the Site Manager, Jason Guenther, about scheduled work.

Items discussed are summarized below:

The landfill would be completely covered with the LLDPE "blackout" sometime Thursday (30 August 2001).

The final grade plan needs to be revised to show the correct location of the "limit of waste" and "limit of cap" boundaries.

A couple of the gas vents and piezometers on top of the landfill will be straightened to a vertical positions by Earth Tech and/or MidAmerica Liner prior to installing the final soil cover.

Earth Tech's calculations suggest that there is enough soil from the two borrow areas to completely cover the landfill as well as backfill contaminated soil area BP-01/BP-02.

An on-site treatment system may need to be installed if the tested leachate contains analytes above trigger levels.

The utility trench for the electrical conduit has been installed but not completed. Earth Tech has proposed a utility trench modification to the U.S. EPA.

A portion of Ray Skinner's equipment/trash will have to be relocated in order to complete the installation of the force main system.

Earth Tech has proposed to conduct soil sampling using a GeoProbe rig near contaminated soil area BP-01/BP-02. The GeoProbe samples will be used to evaluate the extent of waste material. Any and all excavated material will be hauled off-site since the landfill is now completely capped. Monitoring well/piezometer installation will begin Tuesday (4 September 01) with an Earth Tech geologist and the drilling firm. The locations of two of the proposed monitoring wells near

interceptor trench No. 2 will have to be re-evaluated due to the constraints of the site.

Leachate water, stored in the "poly" tank, has been tested by a laboratory. All of the results have come back as nondetect. Earth Tech has yet to determine the final disposition of the leachate water.

Earth Tech will subcontract the work to dispose of the diesel tank and the process "glue" tank located inside the landfill fence.

The dead trees within the Duck Pond will eventually be removed. However, one of the trees is on the property boundary.

4 September 2001 (Tuesday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther (Earth Tech)
Greg Parker (Earth Tech)
Earth Tech additional employees
MidAmerica Liner Company employees
Burgess and Niple (surveyors)
Bowser-Morner (drilling contractors)
Michael A. Brady (WESTON)

BOREHOLE DRILLING AND SAMPLING/WELL AND PIEZOMETER CONSTRUCTION

Earth Tech and Bowser-Morner began the borehole drilling and sampling and the subsequent well and piezometer construction at the west end of the site. Drilling was started at GW-59 once the surveyors from Burgess & Niple marked the proposed monitoring well location. However, sediment samples are not being contained in core boxes, which are "to be retained for at least one year" according to Section 3.2 of the Remedial Action Field Sampling Plan. Additionally, Earth Tech drilled to 22 feet below ground surface (bgs) at GW-59, and no saturated zone was encountered. This may be a result of the effectiveness of the slurry wall. The slurry wall may have cut off the primary supply to a perched zone at this location. Earth Tech subsequently decided to backfill the borehole with bentonite pellets to approximately 13 feet bgs, add 1 foot of sand, and set the 2-inch-diameter well even though there was no indication of a perched zone. Scott Hansen (U.S. EPA) was immediately contacted about this issue.

LANDFILL CAP CONSTRUCTION

MidAmerica Liner completed the deployment of the LLDPE liner last Thursday (30 August 01), and they also completed the detail work (grinding, welding, "V" box, slip boots, shear and peel tests, etc.) on the LLDPE last Saturday (1 September 01). A total of 169 panels of LLDPE were deployed over the entire landfill surface, and a total of 379 repairs were made to the LLDPE liner as a result of the location of end seams and orthogonal seams. MidAmerica Liner continued deploying the geocomposite drainage layer over the western quarter of the landfill. CQA and QC estimated the liner work to be completed by the end of this week. Additionally, Earth Tech covered portions of the liner with the vegetative layer near the northern borrow area and along the eastern side of the landfill.

HEALTH and SAFETY

Often, the MidAmerica Liner crew has not worn hard hats or safety glasses while deploying the liner material.

Other health and safety hazards are same as identified in the 10 August 2001 summary.

OTHER ACTIVITIES/ISSUES

Various gas vents and piezometers are in need of repair prior to completion of the final grade work. All of the gas vents and piezometers have been booted – a requirement of MidAmerica Liner. However, the LLDPE has expanded and contracted so much so that various gas vents have rotated from their vertical position, and several piezometers are inclined. One piezometer, P-8, is cracked or broken.

With the exception of those items specifically noted, WESTON did not see any deviation from the U.S. EPA-approved planning documents.

5 September 2001 (Wednesday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther (Earth Tech)
Greg Parker (Earth Tech)
Earth Tech additional employees
MidAmerica Liner Company employees
Burgess and Niple (surveyors)
Hilvert and Pope (electrical contractors)
Bowser-Morner (drilling contractors)
Michael A. Brady (WESTON)

BOREHOLE DRILLING AND SAMPLING/WELL AND PIEZOMETER CONSTRUCTION

Earth Tech and Bowser-Morner continued the borehole drilling and sampling and the subsequent well and piezometer construction at the west end of the site. Drilling was started yesterday (4 September 2001) at GW-59, and the well was constructed today. No saturated zone was encountered. Bowser-Morner completed a second and third borehole and well construction at GW-60 and GW-61. No saturated zone was encountered at GW-60, but a narrow (~ 2-feet) sand and gravel wet zone was encountered at a depth of 10 to 12 feet bgs at GW-61. Screens for both wells were 10 feet long. So far, bedrock was encountered at GW-60 at approximately 8 feet bgs. The well was set at 12 feet bgs. The lack of ground water may be a result of the effectiveness of the slurry wall. The slurry wall may have cut off the primary supply to a perched zone at these locations. Also, sediment and bedrock core samples were not being contained in core boxes, which are "to be retained for at least one year" according to Section 3.2 of the Remedial Action Field Sampling Plan. Drill cuttings were stockpiled on plastic sheeting and will be disposed of at a later date.

LANDFILL CAP CONSTRUCTION

MidAmerica Liner continued deploying the geocomposite drainage layer over the western quarter of the landfill. CQA and QC estimated the liner work to be completed by the end of this week. Yesterday, MidAmerica Liner deployed 75,000 square feet of geocomposite – 45,000 square feet remain. Additionally, Earth Tech covered portions of the liner with the vegetative layer near the northern borrow area and along the east side of the landfill. However, Earth Tech had to remove the soil cover along the edge of the geocomposite near the Duck Pond because the geocomposite drainage layer must "daylight" at the perimeter.

CONTAMINATED SOIL EXCAVATION AREAS

Earth Tech and Bowser-Morner (GeoProbe contractor) completed a soil investigation adjacent to four ('hot') spots at contaminated soil excavation area BP-01/BP-02. The soil samples for laboratory analysis were collected at approximately 3 ½ feet bgs. A total of 20 soil samples was sent to the laboratory for chemical analysis. Earth Tech requested a 24-hour turn-around time. Drill cuttings were stockpiled on plastic sheeting and will be disposed of at a later date.

HEALTH and SAFETY

Often, the MidAmerica Liner crew has not worn hard hats or safety glasses while deploying the liner material.

Other health and safety hazards are same as those identified in the 10 August 2001 summary.

OTHER ACTIVITIES/ISSUES

Various gas vents and piezometers are in need of repair prior to completion of the final grade work. All of the gas vents and piezometers have been booted. However, the LLDPE has expanded and contracted so much so that various gas vents have rotated from their vertical position, and several piezometers are inclined. One piezometer, P-8, is cracked or broken.

Mr. Ray Skinner was on-site to comment about the contaminated soil excavation area BP-01/BP-02. Mr. Skinner identified two buried utilities near the excavation; water and electric utilities. The utility lines may be at a depth of 5 feet bgs. Mr. Skinner also commented about a drunken driver who drove his car into the excavation this past weekend. Mr. Skinner pulled out the car with a tow truck. According to Mr. Skinner, the driver of the car is now in the intensive care unit at a local hospital. He also mentioned the possibility of a lawsuit. Finally, Mr. Skinner commented about a number of cinder building blocks located in the excavation. He would like the blocks removed prior to backfilling the excavation because he intends to use the blocks.

With the exception of those items specifically noted, WESTON did not see any deviation from the U.S. EPA-approved planning documents.

6 September 2001 (Thursday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guentherr (Earth Tech)
Greg Parker (Earth Tech)
Rick Warwick (Earth Tech)
Earth Tech additional employees
MidAmerica Liner Company employees
Burgess and Niple (surveyors)
Hilvert and Pope (electrical contractors)
Bowser-Morner (drilling contractors)
Michael A. Brady (WESTON)

BOREHOLE DRILLING AND SAMPLING/WELL AND PIEZOMETER CONSTRUCTION

Earth Tech and Bowser-Morner continued the borehole drilling and sampling and the subsequent well and piezometer construction at GW-63, GW-64, and GW-65. No saturated zone was

encountered at GW-65, but saturated zones were encountered at GW-63 and GW-64. Screens for each of the wells were 10 feet long.

Bedrock was encountered at GW-64 and GW-65 but not at GW-63. GW-63 was not advanced to bedrock because the saturated zone at GW-63 was shallower than the bedrock interface. Drill cuttings were stockpiled on plastic sheeting and will be disposed of at a later date.

LANDFILL CAP CONSTRUCTION

MidAmerica Liner completed the installation of the geocomposite drainage layer over the western quarter of the landfill deploying 45,000 square feet of geocomposite. Additionally, Earth Tech continued to cover portions of the liner with the vegetative layer near the center of the landfill.

HEALTH and SAFETY

A semi-truck driver was on-site to dispatch the excess liner material left over from MidAmerica Liner. Sometime during his visit, he fell from his vehicle, bumped his head, and "blacked out." Earth Tech then contacted the West Chester EMS. The truck driver refused medical treatment, however, and subsequently completed his work at the site without further incident.

Other health & safety hazards are the same as those identified in the 10 August 2001 summary.

OTHER ACTIVITIES/ISSUES

Earth Tech continued to install another row of gabion baskets along the creek bank near interceptor trench No. 2. The project engineer, Ron Roelker, decided to add two additional rows of gabion baskets, slightly offset from one another, for bank stabilization and erosion control. Much of the fabric material along the creek bank was removed in order to install the gabion baskets.

Various gas vents and piezometers are in need of repair prior to completion of the final grade work. All of the gas vents and piezometers have been booted. However, the LLDPE has expanded and contracted so much so that various gas vents have rotated from their vertical position, and several piezometers are inclined. One piezometer, P-8, is cracked or broken. Earth Tech mentioned that they are planning on repairing those gas vents and piezometers in question.

With the exception of those items specifically noted, WESTON did not see any deviation from the U.S. EPA-approved planning documents.

7 September 2001 (Friday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther (Earth Tech)
Greg Parkerr (Earth Tech)
Earth Tech additional employees
MidAmerica Liner Company employees
Burgess and Niple (surveyors)
Hilvert and Pope (electrical contractors)
Bowser-Morner (drilling contractors)
Michael A. Brady (WESTON)

BOREHOLE DRILLING AND SAMPLING/WELL AND PIEZOMETER CONSTRUCTION

Earth Tech and Bowser-Morner continued the borehole drilling and sampling and the subsequent well and piezometer construction. Bowser-Morner constructed the concrete well pads at each of the monitoring wells installed thus far; GW-59, GW-60, GW-61, GW-63, GW-64, and GW-65. Monitoring well GW-25 was sealed by completely filling the dry well cavity with a bentonite-cement grout. Additionally, the protective casing (stick-up) was removed below ground surface.

LANDFILL CAP CONSTRUCTION

MidAmerica Liner completed the installation of the geocomposite drainage layer at the landfill. MidAmerica Liner removed all miscellaneous debris from the landfill surface, and they loaded their vehicles as part of demobilization. Additionally, Earth Tech continued to cover portions of the drainage layer with the final vegetative cover. Two access roads were in the process of being built. Earth Tech will survey the perimeter of the landfill to determine if the Geocomposite drainage layer is day lighting.

HEALTH and SAFETY

The health and safety hazards are the same as those identified in the 10 August 2001 summary.

OTHER ACTIVITIES/ISSUES

With the exception of those items specifically noted, WESTON did not see any deviation from the U.S. EPA-approved planning documents.

10 September 2001 (Monday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Greg Parker (Earth Tech)
Earth Tech additional employees
Pro-Terra employees
Burgess and Niple (surveyors)
Hilvert and Pope (electrical contractors)
Bowser-Morner (drilling contractors)
Michael A. Brady (WESTON)
Cincinnati Bell

GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION

Pro-Terra, Hilvert & Pope, and Cincinnati Bell were on-site to continue construction of the force main electrical line and communications line.

BOREHOLE DRILLING AND SAMPLING/WELL AND PIEZOMETER CONSTRUCTION

Earth Tech and Bowser-Morner began the gas probe installation at gas probe No. 7 using an Acoustic Televiwer (ATV) drill rig. Bedrock at this location was encountered at approximately 5 feet bgs. A 3-foot screen or perforated PVC pipe was set into bedrock at a depth of 7 feet bgs. A No. 3 sand was used in place of the 3/8-inch gravel pack, and a mix of No. 3, No. 4, and No. 5 sand (2:1:1 ratio) was used as the filter sand pack over the gravel pack.

LANDFILL CAP CONSTRUCTION

Earth Tech continued to cover portions of the drainage layer with the final vegetative cover. Two access roads were in the process of being built. The two access roads were used to install the vegetative cover near the west end of the landfill. Earth Tech will survey the perimeter of the landfill to determine if the geocomposite drainage layer is day lighting.

SURFACE WATER MONITORING and SAMPLING

Earth Tech completed surface water run-off sampling at one location at creek level along the south property boundary of the site.

HEALTH and SAFETY

The health and safety hazards are the same as those identified in the 10 August 2001 summary.

OTHER ACTIVITIES/ISSUES

Earth Tech uncovered by hand at least one of the gas vents that had been unintentionally buried by the vegetative cover on top of the landfill.

With the exception of those items specifically noted, WESTON did not see any deviation from the U.S. EPA-approved planning documents.

11 September 2001 (Tuesday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Greg Parker (Earth Tech)
Rick Warwick (Earth Tech)
Earth Tech additional employees
Pro-Terra employees
Burgess and Niple (surveyors)
Hilvert and Pope (electrical contractors)
Bowser-Morner (drilling contractors)
Michael A. Brady (WESTON)

GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION

Hilvert & Pope was on-site to continue construction of the force main electrical line and communications line.

BOREHOLE DRILLING AND SAMPLING/WELL AND PIEZOMETER CONSTRUCTION

Earth Tech and Bowser-Morner continued the gas probe installation at gas probe No. 5 using the ATV drill rig. Gas probe No. 7 was installed yesterday (10 September 2001), and the total depth was 7 feet bgs. Bowser-Morner drilled to approximately 10 feet bgs before the rig broke down. Bowser-Morner drove the rig back to the Dayton office for repair. They were scheduled to continue drilling at gas probe No. 5 Wednesday (12 September 2001) morning.

LANDFILL CAP CONSTRUCTION

Earth Tech continued to cover portions of the drainage layer with the final vegetative cover. Two access roads were in the process of being built. The two access roads were used to install the vegetative cover near the west end of the landfill.

Michael A. Brady reviewed the landfill Panel Layout plan with Rick Warwick (Earth Tech). The surveyed extent of the panel layout does not correspond exactly with the Limit of Cap Construction as shown on the Site Construction Use Plan. A question was brought up as to whether all of the landfill waste had been covered with the liner material.

HEALTH and SAFETY

The health and safety hazards are the same as those identified in the 10 August 2001 summary.

12 September 2001 (Wednesday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Greg Parker (Earth Tech)
Earth Tech additional employees
Pro-Terra employees
Hilvert and Pope (electrical contractors)
Burgess and Niple (surveyors)
Bowser-Morner (drilling contractors)
Superior Environmental Services (Earth Tech subcontractors)
Michael A. Brady (WESTON)

GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION

Hilvert & Pope was on-site to install the electrical lines from the beginning of the main access road to the force main vault box.

Earth Tech was pumping interceptor trench No. 2 as part of a prestartup sampling effort. The purge water was stored in a frac-tank near the interceptor trench. Approximately 20,000 gallons of water was purged from interceptor trench No. 2 before Earth Tech collected the samples from the frac-tank.

BOREHOLE DRILLING AND SAMPLING/WELL AND PIEZOMETER CONSTRUCTION

Earth Tech and Bowser-Morner continued the gas probe installation at gas probes No. 5, No. 8, and No. 10 using the ATV drill rig. The total depth at each of the gas probes varies as the depth to bedrock varies across the site.

Water level measurements at each of the 2-inch-diameter groundwater wells were recorded. Groundwater well GW-59 contained 3.23 feet of water; GW-60 contained no water; GW-61 contained 5.72 feet of water; GW-63 contained 7.79 feet of water; GW-64 contained 6.66 feet of water; and GW-65 contained 0.42 feet of water. Note that none of the wells have been properly developed. Recent groundwater pumping from interceptor trench No. 2 may have affected the water level in nearby groundwater wells, e.g., GW-59, GW-60, and GW-61.

LANDFILL CAP CONSTRUCTION

Earth Tech continued to cover portions of the drainage layer with the final vegetative cover. Much of the topsoil cover has been installed over the northern and central portions of the landfill. Two access roads were in the process of being built. The two access roads were used to install the vegetative cover near the west end of the landfill.

HEALTH and SAFETY

The health and safety hazards are the same as those identified in the 10 August 2001 summary.

OTHER ACTIVITIES/ISSUES

A prefinal inspection is scheduled for 27 September 2001.

Earth Tech continued to build gabion baskets and to install an additional row of gabion baskets along the creek bank near interceptor trench No. 2.

With the exception of those items specifically noted, WESTON did not see any deviation from the U.S. EPA-approved planning documents.

13 September 2001 (Thursday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Scott Hansen (U.S. EPA)
Greg Parker (Earth Tech)
Rick Warwick (Earth Tech)
Earth Tech additional employees
Pro-Terra employees
Hilvert and Pope (electrical contractors)
Burgess and Niple (surveyors)
Bowser-Morner (drilling contractors)
Michael A. Brady (WESTON)

GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION

Hilvert & Pope installed a portion of the overhead electrical lines.

Earth Tech completed pumping interceptor trench No. 2 as part of a prestartup sampling effort. The purge water was stored in a frac-tank near the interceptor trench. Approximately 20,000 gallons of water was purged from interceptor trench No. 2.

BOREHOLE DRILLING AND SAMPLING/WELL AND PIEZOMETER CONSTRUCTION

Earth Tech and its subcontractor Bowser-Morner completed gas probe GP-9. The total depth of the probe was 16 feet bgs. Earth Tech started and completed the installation of piezometer P-4. The total depth of P-4 was 12.5 feet bgs. Additionally, Earth Tech started and completed gas probe GP-1. The total depth of GP-1 was 19.5 feet bgs.

LANDFILL CAP CONSTRUCTION

Earth Tech continued to cover portions of the drainage layer with the final vegetative cover. Much of the topsoil cover has been installed over the northern and central portions of the landfill.

Earth Tech estimates that the soil cover will be completely installed by Wednesday, 19 September 2001. Burgess & Niple resurveyed points along the southern lobe of the landfill near the southern borrow area. Also, Earth Tech conducted grubbing and clearing along the west access road in order to regrade the side slope.

CONTAMINATED SOIL EXCAVATION AREAS

Results of the most recent soil samples collected from contaminated soil excavation area BP-01/BP-02 have come back below trigger levels at the perimeter sample locations. This area was scheduled to be over excavated and subsequently backfilled.

HEALTH and SAFETY

The health and safety hazards are the same as those identified in the 10 August 2001 summary.

OTHER ACTIVITIES/ISSUES

Scott Hansen, Remedial Project Manager (U.S. EPA), arrived on-site to conduct a site walk and review the progress of Earth Tech and its subcontractors. During the site walk, Scott pointed to an area along the creek bank at the gabion wall where slurry from the construction of the cut-off wall may be exposed.

The gabion wall is nearly finished. Fabric has been installed at either end of the wall beneath the large rip-rap stone.

With the exception of those items specifically noted, WESTON did not see any deviation from the U.S. EPA-approved planning documents.

17 September 2001 (Monday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Greg Parker (Earth Tech)
Rick Warwick (Earth Tech)
Earth Tech additional employees
Pro-Terra employees
MidAmerica Liner Company employees
Hilvert and Pope (electrical contractors)
Burgess and Niple (surveyors)
Bowser-Morner (drilling contractors)
Michael A. Brady (WESTON)

BOREHOLE DRILLING AND SAMPLING/WELL AND PIEZOMETER CONSTRUCTION

Earth Tech and its subcontractor Bowser-Morner installed gas probes GP-4 (total depth, 11 feet bgs), GP-6 (total depth, 16.5 feet bgs) and piezometer P-2 (total depth, 13.3 feet bgs) last Friday, 14 September 2001. Each of the gas probes and the piezometer were installed at the bedrock interface.

The drill rig used by Bowser-Morner broke down twice, and no wells, gas probes, or piezometers were installed. Bowser-Morner estimated that the drill rig would be repaired by tomorrow morning, 18 September 2001.

LANDFILL CAP CONSTRUCTION

Earth Tech's CQA, Joe Kruger, was on-site to oversee the repair work to eight gas vents and two piezometers by MidAmerica Liner. During the repair work, Earth Tech noticed that several of the gravel-filled trenches for the gas vents were filled with water. Gas vents and piezometers were repaired by removing the pipe boots and cutting a section of liner material. One Polyvinyl Chloride (PVC) piezometer and two PVC gas vents were broken. The others were either rotated off center or bent as a result of the liner installation. The gas vents and piezometers were all repaired. Also, Earth Tech completed grubbing and clearing along the west access road in order to regrade the side slope.

HEALTH and SAFETY

The site is extremely dry and dusty because of the amount of dirt that is being moved. No water truck was available today for dust suppression.

The health and safety hazards are the same as those identified in the 10 August 2001 summary.

OTHER ACTIVITIES/ISSUES

Mr. Ray Skinner had numerous comments about the site and the construction contractors:

- The electrical contractors used Mr. Skinner's guy wire and electrical connectors to install the overhead electrical lines. Mr. Skinner threatened to have them arrested.
- Mr. Skinner requested a payment of \$5,000 for the property now occupied by a recently installed utility pole. The utility pole was needed as part of the overhead electrical line installation. Likewise, the electrical contractors used several of the existing utility poles on Mr. Skinner's property. One of the utility poles is leaning to a point where Mr. Skinner fears that it may soon fall.
- Mr. Skinner's yard had accumulated a lot of runoff water because of the landfill seep drainage.
- Dirt and mud has covered Mr. Skinner's driveway and the entrance at Cincinnati-Dayton Road. Likewise, the principal at the school across the street had asked Mr. Skinner if the dirt and mud along Cincinnati-Dayton Road was contaminated. The trucks leaving the site should be run through a wheel bath.
- Items were stolen from Mr. Skinner's scale house and elsewhere on-site.
- Earth Tech and its subcontractors are blocking access to Mr. Skinner's roll-off boxes.
- Earth Tech and its subcontractors are leaving trash around the site and in his roll-off boxes. Mr. Skinner would like a payment of \$250 to \$300 per roll-off box.
- Mr. Skinner insists that the soil from borrow areas or other area(s) of the site should not be used to backfill the excavated contaminated soil area BP-01/BP-02 because he believes that the soil is contaminated. Mr. Skinner is concerned that no one has been wearing protective clothing, e.g., gloves, boots, etc.

With the exception of those items specifically noted, WESTON did not see any deviation from the U.S. EPA-approved planning documents.

18 September 2001 (Tuesday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Greg Parker (Earth Tech)
Rick Warwick (Earth Tech)
Ron Roelker (Earth Tech)
Earth Tech additional employees
Butler County Department of Environmental Services various employees
Ben Baker, PRP representative for the Skinner Landfill Group
Burgess and Niple (surveyors) Bowser-Morner (drilling contractors)
Michael A. Brady (WESTON)

BOREHOLE DRILLING AND SAMPLING/WELL AND PIEZOMETER CONSTRUCTION

Earth Tech and its subcontractor Bowser-Morner installed piezometers P-1 (total depth, 26 feet bgs), P-6 (total depth, 13.5 feet bgs) and groundwater monitoring well GW-58 (total depth, 28 feet bgs). The monitoring well and each of the piezometers were installed at the bedrock interface. The drill rig used by Bowser-Morner was splashed with hydraulic fluid from the hydraulic line break Monday. Decontamination of the entire drill rig may be necessary in order to prevent contamination of the soil and water during the installation of gas probes, piezometers, and groundwater monitoring wells. Likewise, the split spoons were not decontaminated prior to use at any of the drilling locations today. WESTON inquired about the use of a wash and rinse station for the split spoons, but nothing was done.

LANDFILL CAP CONSTRUCTION

Earth Tech's CQA, Joe Kruger, was on-site to oversee the repair work to eight gas vents and two piezometers by MidAmerica Liner. Only one gas vent, GV-6, was completely repaired (welded and tested) before MidAmerica Liner had equipment problems. MidAmerica Liner was unable to weld and test any additional gas vents or piezometers today because of weather conditions. The open gas vents and piezometers were covered by plastic sheeting and, in some cases, sand bags to prevent rainwater from contacting the GCL. However the GCL at some locations was wet. Also, Earth Tech attached wind turbines to several of the gas vents that did not need repair work by MidAmerica Liner.

Finally, Earth Tech began construction of the surface water diversion berms along the east side of the landfill as part of the post construction surface water control plan.

HEALTH and SAFETY

The health and safety hazards are the same as those identified in the 10 August 2001 summary.

OTHER ACTIVITIES/ISSUES

A meeting was held between Earth Tech, Ben Baker (PRP representative), and the Butler County Department of Environmental Services. The discussion focused on discharge permits, applications, document review, and fees associated with the force main system and discharge permit.

A pre-prefinal meeting was scheduled at the site trailer for Friday, 21 September 2001 with Scott Hansen, U.S. EPA Remedial Project Manager.

With the exception of those items specifically noted, WESTON did not see any deviation from the U.S. EPA-approved planning documents.

19 September 2001 (Wednesday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Greg Parker (Earth Tech)
Earth Tech additional employees
Butler County Department of Environmental Services various employees
Bowser-Morner (drilling contractors)
Michael A. Brady (WESTON)

BOREHOLE DRILLING AND SAMPLING/WELL AND PIEZOMETER CONSTRUCTION

Earth Tech and its subcontractor Bowser-Morner did not install any piezometers, gas probes, or groundwater monitoring wells. Earth Tech had the drillers set up at various locations around the site but subsequently decided that each location needed further review or surface preparation work prior to beginning drilling. Eventually Earth Tech decided to stop work for the day due to the muddy conditions.

LANDFILL CAP CONSTRUCTION

For part of the day, Earth Tech continued to move soil (clay and topsoil) from the northern borrow area to the southern lobe of the landfill in order to cover the liner. Earth Tech also attached wind turbines to several more of the gas vents that did not need repair work by MidAmerica Liner.

CONTAMINATED SOIL EXCAVATION AREAS

Earth Tech completed the over-excavation work at contaminated soil excavation area BP-01/BP-02 in four different areas; SK-SS-09 (northeast), SK-SS-12 (southwest), SK-SS-15 (mid-southeast), and SK-SS-16 (mid-southeast). A total of 20 yards of excavated soil were removed from the four areas and loaded into a roll-off box lined with plastic sheeting. Additionally, the drill cuttings generated during the installation of the piezometers, gas probes, and groundwater monitoring wells were loaded into the roll-off box using a front-end loader. Security fencing was installed around the entire perimeter of the excavation area.

HEALTH and SAFETY

The health and safety hazards are the same as those identified in the 10 August 2001 summary.

OTHER ACTIVITIES/ISSUES

Mr. Ray Skinner had numerous comments, as before, about the site and the construction contractors. Mr. Skinner made similar comments on Monday, 17 September 2001. The comments today were directed to Earth Tech's site manager Greg Parker.

During the oversight, WESTON did not see any deviation from the U.S. EPA-approved planning documents.

20 September 2001 (Thursday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Greg Parker (Earth Tech)
Earth Tech additional employees
Hilvert and Pope (electrical contractors)
Burgess and Niple (surveyors)
Bowser-Morner (drilling contractors)
MidAmerica Liner Company employees
Michael A. Brady (WESTON)

BOREHOLE DRILLING AND SAMPLING/WELL AND PIEZOMETER CONSTRUCTION

Earth Tech and its subcontractor Bowser-Morner installed gas probes GP-2 (total depth, 12 feet bgs), GP-3 (total depth, 18 feet bgs), and piezometer P-5 (total depth, 17 feet bgs). Gas probe GP-2 and piezometer P-5 were installed at the bedrock interface.

Note that the soil cuttings from a depth of approximately 12 to 14 feet bgs at piezometer P-5 showed a distinct change in soil color and texture and a strong odor (possibly a solvent). The cuttings from the split spoon at 12 to 14 feet bgs at P-5 contained wood fragments with a strong chemical odor. Piezometer P-5 is located approximately 5 feet south-southeast beyond the toe of the geocomposite drainage layer.

LANDFILL CAP CONSTRUCTION

Earth Tech continued to move soil (clay and topsoil) from the northern and southern borrow areas to the southern lobe of the landfill in order to cover the liner. Earth Tech also attached wind turbines to several more of the gas vents that did not need repair work by MidAmerica Liner. MidAmerica Liner completed the repair and patch work on each of the gas vents and piezometers. Testing of the liner repair work ("V" box testing) was scheduled for Friday, 21 September 2001.

CONTAMINATED SOIL EXCAVATION AREAS

Earth Tech stockpiled clean soil from the northern borrow area near the entrance to the landfill. The stockpiled soil will be used to backfill contaminated soil area BP-01/BP-02.

SURFACE WATER MONITORING and SAMPLING

Earth Tech completed surface water sampling at four different locations along the east fork of Mill Creek.

HEALTH and SAFETY

The health and safety hazards are the same as those identified in the 10 August 2001 summary.

OTHER ACTIVITIES/ISSUES

Once again, Mr. Ray Skinner had numerous comments about the site and the construction contractors. Mr. Skinner made similar comments on Monday, 17 September 2001 and Wednesday, 19 September 2001. The comments today were directed to Earth Tech's Site Manager Greg Parker and the electrical contractor from Hilvert & Pope.

During the oversight, WESTON did not see any deviation from the U.S. EPA-approved planning documents.

21 September 2001 (Friday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Scott Hansen (U.S. EPA)
Ben Baker, PRP (DOW SLG)
Tim Auch (Westech)
Rick Warwick (Earth Tech)
Ron Roelker (Earth Tech)
Greg Parker (Earth Tech)
Earth Tech additional employees
Hilvert and Pope (electrical contractors)
Burgess and Niple (surveyors)
Bowser-Morner (drilling contractors)
MidAmerica Liner Company employees
Michael A. Brady (WESTON)

BOREHOLE DRILLING AND SAMPLING/WELL AND PIEZOMETER CONSTRUCTION

Earth Tech and its subcontractor Bowser-Morner installed piezometer P-3 (total depth, 34 feet bgs). However, the drillers lost approximately 2 to 3 feet in depth because the well was stuck inside the augers as the augers were being removed.

LANDFILL CAP CONSTRUCTION

Earth Tech continued to move soil (clay and topsoil) from the northern and southern borrow areas to the southern lobe of the landfill in order to cover the liner. MidAmerica Liner completed the repair and patch work on each of the gas vents and piezometers. Testing of the liner repair work (('V') box testing) was completed.

CONTAMINATED SOIL EXCAVATION AREAS

Earth Tech stockpiled clean soil from the northern borrow area near the entrance to the landfill. The stockpiled soil will be used to backfill contaminated soil area BP-01/BP-02. The backfill work was scheduled for Monday, 24 September 2001.

HEALTH and SAFETY

The health and safety hazards are the same as those identified in the 10 August 2001 summary.

OTHER ACTIVITIES/ISSUES

Scott Hansen, Remedial Project Manager (U.S. EPA) arrived on-site to conduct a site walk and review the progress of Earth Tech and its subcontractors as part of a pre-prefinal meeting. Present during the meeting were Ben Baker, PRP (DOW SLG), Rick Warwick, Project Manager (Earth Tech) and Ron Roelker, Project Engineer (Earth Tech). A prefinal inspection is scheduled for Thursday, 27 September 2001.

Earth Tech continued to construct the gabion wall along the east fork of Mill Creek. Large rip-rap

stone was placed at the base of the gabion wall as an additional measure to reinforce the cut-bank. The gabion wall is nearly finished.

The 20,000 gallons of stored purged water from interceptor trench No. 2 was released to the sanitary sewer.

During the oversight, WESTON did not see any deviation from the U.S. EPA-approved planning documents.

24 September 2001 (Monday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Greg Parker (Earth Tech)
Earth Tech additional employees
Hilvert and Pope (electrical contractors)
Burgess and Niple (surveyors)
Bowser-Morner (drilling contractors)
Alt and Witzig Engineers employees
Michael A. Brady (WESTON)

BOREHOLE DRILLING AND SAMPLING/WELL AND PIEZOMETER CONSTRUCTION

Earth Tech and its subcontractor Bowser-Morner installed piezometer P-7 (total depth, 18 feet bgs). No fill material was encountered during the drilling. Groundwater wells yet to be constructed include GW-62A, GW-62B, and GW-66. Piezometers yet to be constructed include P-13 and P-14. All gas probes have been installed. Earth Tech received approval from Scott Hansen, Remedial Project Manager (U.S. EPA), to install groundwater wells GW-62A and GW-62B at a newly proposed location adjacent to interceptor trench number 2.

LANDFILL CAP CONSTRUCTION

Earth Tech did not move any soil (clay and topsoil) to the landfill in order to cover the liner because of the very wet conditions. However, Earth Tech regraded the slope along the west access road.

CONTAMINATED SOIL EXCAVATION AREAS

Earth Tech backfilled contaminated soil area BP-01/BP-02 in 12-inch lifts using the stockpiled clean soil from the northern borrow area near the entrance to the landfill. Alt & Witzig Engineering compacted and tested the backfill material.

HEALTH and SAFETY

The health and safety hazards are the same as those identified in the 10 August 2001 summary.

OTHER ACTIVITIES/ISSUES

Earth Tech continued to construct the gabion wall along the east fork of Mill Creek. A soil cover was placed on top of the gabion wall, and large rip-rap stone was placed at the base of the gabion wall as an additional measure to reinforce the cut-bank. Likewise, Earth Tech constructed gabion baskets for the various ditch checks around the site.

The groundwater/leachate from interceptor trench No. 1 was pumped into interceptor trench No. 2, which was subsequently pumped into the frac tank.

Ray Skinner's sister and step-father were on-site taking photographs and video of the work being conducted at contaminated soil area BP-01/BP-02. Both were present when a small (2-to-3 quarts) spill of oil occurred near the site trailer. An employee of Columbus Equipment Company completed maintenance of an Earth Tech bulldozer near the trailer and accidentally spilled the oil. Earth Tech employees subsequently cleaned the area by removing the impacted soil.

Additionally, Ray Skinner's sister and step-father indicated that a lawsuit may be pending as a result of the contaminated soil area BP-01/BP-02 being backfilled with soil from on-site near the landfill. Last week, Mr. Ray Skinner was adamant that no soil from the borrow areas or other area(s) of the site would be used to backfill contaminated soil area BP-01/BP-02 because the site is contaminated. Mr. Skinner was concerned that no one had been wearing protective clothing, e.g., gloves boots, etc.

During the oversight, WESTON did not see any deviation from the U.S. EPA-approved planning documents.

25 September 2001 (Tuesday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Greg Parker (Earth Tech)
Rick Warwick (Earth Tech)
Earth Tech additional employees
Hilvert and Pope (electrical contractors)
Burgess and Niple (surveyors)
Bowser-Morner (drilling contractors)
Alt and Witzig Engineers employees
Michael A. Brady (WESTON)

GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION

Hilvert & Pope (electrical contractors) continued to install electrical and communication line from the control box to interceptor trench No. 2.

BOREHOLE DRILLING AND SAMPLING/WELL AND PIEZOMETER CONSTRUCTION

Earth Tech and its subcontractor Bowser-Morner completed the construction of groundwater wells GW-62A (35 feet bgs) and GW-62B (10 feet bgs) at the proposed relocations near the southern end of interceptor trench No. 2 and GW-66 (8 feet bgs). The groundwater wells and the piezometers were scheduled to be developed during the week of 1 October 2001.

LANDFILL CAP CONSTRUCTION

Earth Tech continued to move topsoil from the northern borrow area to the top of the landfill. Also, Earth Tech conducted grubbing, clearing and regrading work along the eastern side of the landfill adjacent to interceptor trench No. 2.

CONTAMINATED SOIL EXCAVATION AREAS

Earth Tech collected northern borrow area soil samples from two locations. One sample and a

duplicate were collected from the soil stockpile near the gate entrance to the landfill. The second soil sample and MS/MSD samples (originating from the northern borrow area) were collected from the compacted backfill of contaminated soil area BP-01/BP-02. The samples were sent to the contract laboratory to be tested for the parameters listed in Table 7 of the Remedial Action Field Sampling Plan.

HEALTH and SAFETY

The health and safety hazards are the same as those identified in the 10 August 2001 summary.

OTHER ACTIVITIES/ISSUES

The gabion wall is completely finished. Six rows of offset gabion basket were installed along the cut bank of the east fork of Mill Creek near interceptor trench No. 2. Fabric was installed at either end of the wall beneath the large rip-rap stone. Additionally, the creek bank was leveled out, and large rip-rap stone was installed at the base of the gabion wall for added erosion control.

The groundwater/leachate from interceptor trench No. 1 was pumped into interceptor trench No. 2, which was subsequently pumped into the frac tank.

Four people visited the site: Ms. Kathleen Stoker (Township Trustee); Ms. Maria Skinner-Roy (local resident); Mr. Fred Carroll; Mr. David Morgan (local resident). Ms. Skinner had a camera and video camera on-site. None of the visitors were wearing hard hats, safety glasses, or appropriate boots. WESTON contacted Scott Hansen, Remedial Project Manager (U.S. EPA) about the site walk by the four visitors. Concerns and comments from the visitors included the following:

- Ms. Stoker suggested that large rocks/boulders on the landfill surface and as part of the soil cover material, could, over time, puncture the FML liner.
- Mr. Morgan: Since the Skinner Landfill is a contaminated Superfund site, why aren't workers not wearing Tyvek suits and respirators?
- Ms. Stoker: A number of 55-gallon drums staged near decontamination pad contain purge water from the landfill. What will be done with the purge water?
- Ms. Skinner: Water from a seep or spring on the western side of the landfill is continuously flowing toward and into Ms. Skinner's yard. The water was not in her yard prior to the beginning of the construction work at the site.
- Ms. Stoker: The seep water on the western side of the landfill is coming from beneath the landfill cap and is therefore contaminated. Will a trench or diversion berm be constructed to capture the contaminated seep water?
- Ms. Skinner: If and when the seep water is diverted, it will run directly into the east fork of Mill Creek and not into the interceptor trench/force main system.
- Ms. Stoker requested a written Scope of Work describing the seep water diversion/collection/treatment plan and a timeline for completion. She will check into this periodically.
- Ms. Skinner: Backfill soil from the northern borrow area is contaminated. Ms. Skinner said that many ties are buried in this particular area. The soil from this area was used to backfill contaminated soil area BP-01/BP-02.

- Mr. Fred Carroll estimates that 10 gallons/minute or 14,000 gallons/day of seep water flows toward Ms. Skinner's home.
- Ms. Stoker asked why an upgradient slurry wall near the Duck Pond has not been installed. Ms. Stoker asked why a water truck was filled with water from the Duck Pond. She said she has photographs of the water truck being filled.
- Mr. Morgan asked if the Duck Pond water is contaminated and why nothing has been done with the pond.
- Mr. Morgan suggested that the drivers of the large Volvo off-road trucks are driving too fast across the landfill.

During the oversight, WESTON did not see any deviation from the U.S. EPA-approved planning documents.

26 September 2001 (Wednesday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Greg Parker (Earth Tech)
 Rick Warwick (Earth Tech)
 Jason Guenther (Earth Tech)
 Earth Tech additional employees
 Hilvert and Pope (electrical contractors)
 Burgess and Niple (surveyors)
 Bowser-Morner (drilling contractors)
 Alt and Witzig Engineers employees
 Michael A. Brady (WESTON)

GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION

Hilvert & Pope (electrical contractors) continued to install electrical and communication line from the control box to interceptor trench No. 2 in preparation of the prefinal meeting scheduled for Thursday (27 September 2001). The groundwater/leachate from interceptor trench No. 1 was pumped into interceptor trench No. 2, which was subsequently pumped into the frac tank. The frac tank was drained at 18 gpm into the nearby sanitary sewer.

BOREHOLE DRILLING AND SAMPLING/WELL AND PIEZOMETER CONSTRUCTION

Bowser-Morner completed the construction of well pads at the groundwater wells, piezometers, and gas probes. Guard posts were installed at each of the gas probes. The groundwater wells and piezometers were scheduled to be developed during the week of 1 October 2001.

LANDFILL CAP CONSTRUCTION

Earth Tech continued to move topsoil from the northern borrow area to the top of the landfill. Also, Earth Tech resurveyed the top of the landfill and started regrading efforts in accordance with the site drainage plan. Portions of the landfill have too much cover material. Additionally, Earth Tech began uncovering (with a backhoe and flat shovels) the geocomposite drainage layer at the perimeter of the landfill so that the drainage layer daylight. Several test pits were constructed to evaluate the soil cover.

CONTAMINATED SOIL EXCAVATION AREAS

Contaminated soil excavation area BP-01/BP-02 was completely backfilled and compacted. Earth Tech covered the former excavation area with No. 57 gravel.

HEALTH and SAFETY

The health and safety hazards are the same as those identified in the 10 August 2001 summary.

OTHER ACTIVITIES/ISSUES

Earth Tech's biologist, James H. Keith, was on-site to conduct a water quality survey at points along the east fork of Mill Creek.

During the oversight, WESTON did not see any deviation from the U.S. EPA-approved planning documents.

27 September 2001 (Thursday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Scott Hansen (U.S. EPA)
Chuck Mellon (Ohio EPA)
Ben Baker (SLG group)
Tim Auch (Westech)
Greg Parker (Earth Tech)
Rick Warwick (Earth Tech)
Ron Roelker (Earth Tech)
Jason Guenther (Earth Tech)
Earth Tech additional employees
Mike Ciammaichella (Pro-Terra)
Hilvert and Pope (electrical contractors)
Burgess and Niple (surveyors)
Bowser-Morner (drilling contractors)
Alt and Witzig Engineers employees
Omprakash Patel (WESTON)
Michael A. Brady (WESTON)

GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION

Hilvert & Pope (electrical contractors) started the collection system pump(s) for the U.S. EPA as part of the prefinal inspection. Hilvert & Pope also continued to install electrical and communication lines from the control box to interceptor trench No. 2.

The groundwater/leachate from interceptor trench No. 1 was pumped into interceptor trench No. 2, which was subsequently pumped into the frac tank.

LANDFILL CAP CONSTRUCTION

Earth Tech continued to move topsoil from the northern borrow area to the top of the landfill. Also, Earth Tech continued to resurveyed the top of the landfill and started regrading efforts in accordance with the site drainage plan. Portions of the landfill have too much cover material. Additionally, Earth

Tech continued uncovering (with a backhoe and flat shovels) the geocomposite drainage layer at the perimeter of the landfill so that the drainage layer daylights.

HEALTH and SAFETY

The health and safety hazards are the same as those identified in the 10 August 2001 summary.

OTHER ACTIVITIES/ISSUES

A prefinal meeting and inspection was held at the site. Present at the meeting were the following: Scott Hansen, Remedial Project Manager (U.S. EPA); Ben Baker, PRP representative for the SLG group; Tim Auch, PRP contractor oversight (Westech); Rick Warwick, Project Manager (Earth Tech); Ron Roelker, Project Engineer (Earth Tech); Jason Guenther, Site Manager (Earth Tech); Mike Ciammaichella, Project Engineer (Pro-Terra); Om Patel, Project Manager (WESTON); and Michael A. Brady (WESTON). Punch list items discussed during the meeting included the following:

- The vegetative cover is yet to be completed.
- U.S. EPA has yet to approve the final landfill drainage plan.
- The final meeting and inspection is yet to be scheduled. Ron Roelker will inform Scott Hansen when the final meeting can be scheduled.
- Waste material has yet to be covered near the decontamination pad.
- The leachate collection system needs to be completely connected to the sanitary sewer. Earth Tech is waiting on a permit number and approval from the Butler County Department of Environmental Services (BCDES).
- The large tree stockpile at the entrance to the landfill has yet to be relocated. This may take up to two weeks to move the materials.
- Locks and labels for each of the groundwater wells, piezometers, and gas probes are on order.
- All groundwater wells, piezometers, and gas probes have been installed with the exception of piezometers P-13 and P-14.
- U.S. EPA needs to approve the fencing plan.
- The investigation, extent evaluation, and backfilling of contaminated soil excavation area BP-01/BP-02 is finished.
- Laboratory results of the soil sampling collected from the northern borrow area are due early next week.
- Earth Tech will dress up the slope near interceptor trench No. 2. Earth Tech will grade the slope at 2 ½ : 1.
- The dead tree in the Duck Pond has yet to be removed.
- Pro-Terra and its subcontractor Hilvert & Pope ran the groundwater interceptor system pumps.

- Pro-Terra and the system manufacturers will conduct a formal start up of the system tentatively scheduled for 2 October 01.
- The phone system has yet to be installed.
- The current transformer is over tasked and will be replaced by Cynergy or Cincinnati Gas & Electric (CG&E).
- Landscaping, seeding, and mulching are yet to be completed.
- Earth Tech will remove the contents of the process "glue" tank and the diesel tank and will dispose of the tanks.
- Earth Tech sampled the seep water along the west access road. Laboratory analyses include the following: TCL volatiles, TCL semivolatiles, TAL inorganic (unfiltered/filtered), TAL cyanide, BOD, TSS, oil & grease, ammonia nitrate, and TDS. A French drain may be installed to capture the seep water and redirect it to the interceptor trench system.
- No heavy equipment will be allowed on top of the cap because of the large rocks incorporated in the soil cover.
- The decontamination pad will be removed.
- The 55-gallon drums near the decontamination pad will be removed.
- The groundwater wells will be developed next week. Purge water will be disposed in the interceptor trench collection system.
- Piezometers on top of the landfill will be extended, and protective casings will be installed.
- Demobilization and clean up are the final items at the site.

During the oversight, WESTON did not see any deviation from the U.S. EPA-approved planning documents.

28 September 2001 (Friday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Greg Parker (Earth Tech)
 Jason Guenther (Earth Tech)
 Earth Tech additional employees
 Burgess and Niple (surveyors)
 Michael A. Brady (WESTON)

LANDFILL CAP CONSTRUCTION

Earth Tech continued to resurveyed the top of the landfill and continued regrading efforts in accordance with the site drainage plan. Portions of the landfill have too much cover material. Additionally, Earth Tech continued uncovering (with a backhoe and flat shovels) the geocomposite drainage layer at the perimeter of the landfill so that the drainage layer daylight. On another note, the dead trees near the Duck Pond have yet to be removed.

HEALTH and SAFETY

The health and safety hazards are the same as those identified in the 10 August 2001 summary.

OTHER ACTIVITIES/ISSUES

None.

During the oversight, WESTON did not see any deviation from the U.S. EPA-approved planning documents.

3 October 2001 (Wednesday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Greg Parker (Earth Tech)
Jason Guenther (Earth Tech)
Earth Tech additional employees
Landscape Reclamation Services employees
Burgess and Niple (surveyors)
Michael A. Brady (WESTON)

LANDFILL CAP CONSTRUCTION

Earth Tech continued to resurvey the top of the landfill and continued regrading efforts in accordance with the site drainage plan.

Waste material was still present near the decontamination pad, and waste material was recently uncovered in the northern borrow area of the site. The size of this recently uncovered area is approximately 40 feet by 40 feet and is spread out over the surface. Some of the soil/waste material had been spread out across a soil diversion berm in the northern borrow area. Disposition of the waste material is yet to be determined.

Earth Tech's subcontractor, Landscape Reclamation Services, accidentally damaged gas vent GV-6 with a piece of heavy equipment. The stainless-steel turbine was damaged, and the gas vent pipe was damaged at the ('T') connection at the base of the vent.

Earth Tech's subcontractor, Landscape Reclamation Services, prepared the landfill topsoil with a disc machine and seeded and fertilized the topsoil. Erosion matting will be used on the side slopes of the landfill.

Earth Tech constructed additional soil diversion berms and down-slope drains (high density polyethylene [HDPE] pipe headwalls and contract management plan [CMP] headwalls) along the east side of the landfill.

HEALTH and SAFETY

The health and safety hazards are the same as those identified in the 10 August 2001 summary.

OTHER ISSUES

Earth Tech dug a trench or catch basin (3 feet by 12 feet) perpendicular to and near the entrance to

the western access road to capture the seep or spring water coming from the landfill. The pooled water was pumped from the trench, transferred to extraction well No. 3, and subsequently transferred to the frac tank.

Earth Tech has relocated all of the dead trees, once stockpiled at the entrance to the landfill, to an area near the northern borrow area.

During the oversight, WESTON did not see any deviation from the U.S. EPA-approved planning documents.

COPIES OF THE FIELD LOG

8/10/01 FRIDAY

M BRADY

0900 LEFT OFFICE FOR SKINNER L.F.

0945 C SKINNER L.F. OVERCAST & HUMID 85 F

BPO1/BPO2 STILL AN OPEN ECC.

1000 PRO TERRA IS EXC. THE FORCE MAIN TRENCH

DOWN TO THE TIE IN C THE SAN SEWER.

& INSTALLING THE CONDUIT FOR THE
FORCE MAIN, ELECT & COMM LINE

1030 E.T. IS BUILDING THE GABION BASKETS

& WAITING FOR THE #4 STONE TO BE
USED AS BASE MTL ALONG THE STREAM
BANK.

1100 MIDAM IS DEPLOYING GEO COM. DRAIN.

LAYER OVER THE LDPE.

1115 E.T. IS BACKFILLING THE ANCHOR

TRENCH ON THE SLOPE.

1130 SEVERAL GAS VENTS HAVE BEEN MOVED

OFF CENTER DUE TO THE LINER EXPANSION &
CONTRACTION.

1215 THE FORCE MAIN VAULT HAS BEEN INSTALLED

W/ CONDUIT INSTALLED IN THE TRENCH &

SAND BEDDING OVER THE CONDUIT.

1230 PRO TERRA DONE FOR THE DAY.

1320 MIDAM & JOE (CRA) AGREE THAT THE SUBBASE

WEST OF THE INSTALLED LINER IS NOT READY.

IT'S TOO SOFT & DAMP.

1345 MIDAM & JOE TO TALK W/ JASON ABOUT SURF

PREP.

1400 E.T. IS NOW REMOVING THE SOIL IN THIS

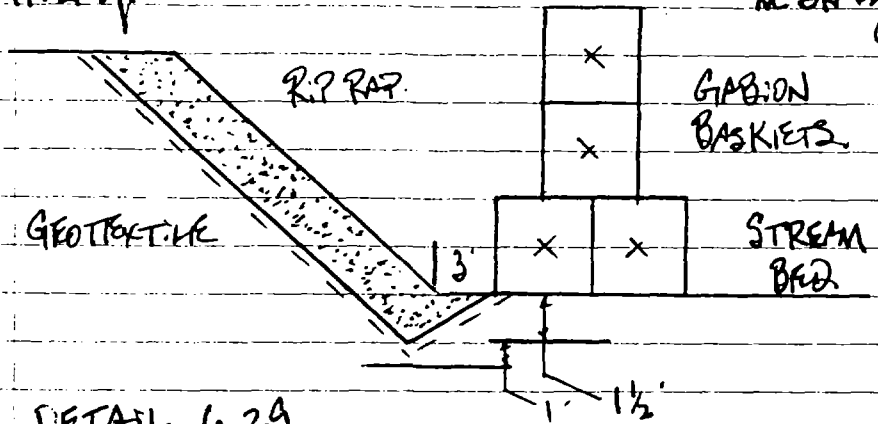
AREA SO IT CAN DRY OUT.

1445 SPOKE W/ JASON ABOUT GABION BASKETS.

THE #4 STONE THAT WAS SCHEDULED TO
ARRIVE TODAY HAS BEEN POSTPONED UNTIL
NEXT WEEK. #4 STONE IS FOR BEDDING.

8/10/01 FRIDAY

M. BRADY



DETAIL G.29.

1530 M. BRADY OFF SITE

8/10/01

8/13/01 MONDAY

M. Brady

1200. LEFT THE OFFICE FOR SKINNER LF

1245 C SKINNER LF PARTLY CLOUDY 85°F
AREA BPO1/BPO2 IS STILL AN OPEN EXC.1310. PROTERRA IS WORKING ON THE FORCE MAIN
SYST. HEAVY RAIN OVER THE WEEKEND
PARTIALLY FILLED THE TRENCHES. PRO
TERRA IS PUMPING WATER FROM TRENCHES
THE CONTRACT ELECTRICIAN, HILBERT &
POPE, IS NOT ON SITE.1350. PROTERRA IS STILL WORKING @ IT#2
E.T. IS EXCAVATING ALONG THE STREAM
BANK NEAR IT#2
THE #4 STONE HAS BEEN USED AS A
BEDDING ALONG A PORTION OF THE STREAM
BANK.GABION BASKETS ARE BEING CONSTRUCTED
& INSTALLED ALONG THE CUT BANK.
AS CALLED FOR IN THE WORK PLAN.1425 MIDAM IS MOVING LINER MTL FM
THE N. BORROW AREA TO THE TOP OF
THE LF.
NINE GTEDCOMP. PANELS WERE DEPLOYED
SATURDAY. BUT THE SUB-BASE TO
THE N. AND W. WAS NOT READY FOR LINER
E.T. IS PREPARING THE SUB-BASE BY
REMOVING ROCKS, STICKS ETC AND ROLLING
THE SURFACE.MIDAM IS NOT SATISFIED WITH THE SUB-BASE
PREP. SINCE 40K FT² HAVE NOT BEEN
PREPARED AHEAD OF TIME.E.T. HAS TURNED OVER SOIL NEAR THE
FORMER DRUM STAGING AREA TO ALLOW IT
TO DRY. HEAVY RAIN THIS PAST WEEKEND

8/13/01 MONDAY

M. BRADY

CREATED SOME POOLING

1515 JENNY DOWNARD ON-SITE TO COLLECT
SURFACE WATER RUN-OFF SAMPLES @
TWO LOCATIONS ALONG THE SOUTH PROPERTY
BOUND.

1600 PROTERRA IS NOW WORKING ON THE FORCE
MAIN SYST. NEAR IT#2.

1625 E-T & MIDAM. HAVE AGREED THAT THE
SUB BASE IS READY FOR LINER DEPLOY.
MIDAM WILL CONTINUE TOMORROW MORN.

1635 M. BRADY OFF SITE

8/13/01

8/14/01 TUESDAY

M. BRADY

1100. LEFT OFFICE FOR SKINNER L.F.

1140. C SKINNER L.F. PARTLY CLOUDY, 80°F
AREA BPO1/BPO2 STILL AN OPEN RECC.1210. E.T. CONTINUES TO PREP. THE SUB-BASE
NEAR THE S BORROW AREA.MIDAM. DEPLOYING LINER. JOE KRUGER
ON SITE AS CQA.1230. ADDITIONAL GABION BASKETS CONSTRUCTED
AND INSTALLED ALONG THE CREEK BANK.1245. PROTERRA ADVANCED THE FORCE MAIN
TRENCH TO THE WEST END OF IT #2.1300. MIDAM. DEPLOYING GCL C THE S. BORROW
AREA. THEN DEPLOY LLDP. OVER ALL
EXPOSED GCL BY THE END OF THE DAY.1400. E.T. HAS PREPARED THE SUB-GRADE TO
THE WEST-NORTHWEST. DEPLOYMENT
SHOULD MOVE FASTER NOW THAT
MOST OF THE ANGLES ARE DONE.
CQA THINKS THAT LINER INST. WILL
TAKE 2 MORE WEEKS IF THE WEATHER
IS GOOD. THE CREEK IS PUNING ON THE
EXPOSED GEOCOMPOSITE. E.T. & MIDAM
MAY HAVE 15 MORE DAYS FM TODAY
TO COVER IT W/ SOIL.1430. THE ELECTRICIAN FM HULBERT & POPE IS
INSTALLING THE ELECT. LINE & COMM LINE
IN THE FORCE MAIN TRENCH.1510. E.T. CONTINUES TO INSTAL BEDDING MTL
AND GABION BASKETS ALONG THE CUT BANK
OF THE CREEK.1545. MOST OF THE E.T. CREW IS DONE FOR THE
DAY, BUT MIDAM, PROTERRA & CQA REMAIN.

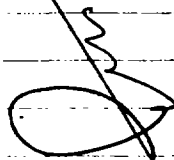
1610. MIDAM. NOW DEPLOYING LLDP OVER

167

8/14/01 TUESDAY
THE GCL

M. BRADY

1630 M. BRADY OFF SITE TO DROP OFF FILM
@ CLICK CAMERA FOR DEV.



8/14/01

8/15/01 WEDNESDAY

M. Brady

1200. LEFT THE OFFICE FOR SKINNER LF.

1235 C SKINNER LF. SUNNY. 85°F

BPO1/BPO2 STILL AN OPEN EXC

1245 HENRY STEINBAUGH (MIDAM) WOULD LIKE TO WORK SUNDAY AUG 26TH TO RELOCATE SOME OF THE LINTER PILES TO A CENTRAL STAGING AREA ON TOP OF THE LF.

JASON GIVENTHER SAID THAT IT'S TOO LATE IN THE WEEK TO GET APPROVAL FOR THIS SUNDAY - AUG 19.

1300. LEFT MSG. FOR OM PATEL ABOUT THIS ISSUE ASKED OM TO TALK TO SCOTT HANSEN.

1330. E.T. IS STILL PREPARING THE SUB-BASE NEAR THE FORMER SS-GAL DRUM STAGING AREA.

E.T. COVERED ALL GCL LAST NIGHT UNTIL 1900 W/ LDPE.

1400. PROTERRA IS CONTINUING TO EXC. THE FORCE MAIN TRENCH & INSTALL THE CONDUIT.

1410. E.T. IS ALSO PREPARING THE SUB-BASE @ THE ACCESS ROAD B/W PANE 25 & PANE 29. FOR LINTER DEPLOYMENT TODAY. MUCH OF THE LDPE PILES WERE COVERED W/ THE GEOCOMPOSITE MT'L E.T. EARLY IN THE MORNING OR LATE IN THE EVENING WHEN WESTON OVERSIGHT WAS NOT ON-SITE. THEREFORE A COMPLETE AS-BUILT CAN'T BE DRAWN. MIDAM & E.T. SHOULD BE ABLE TO PROVIDE A COMPLETE AS-BUILT DIAGRAM.

1420. THE EDGE OF WASTE MT'L NEAR THE DUCK POND IS V. CLOSE TO THE PROPERTY BOUNDARY.

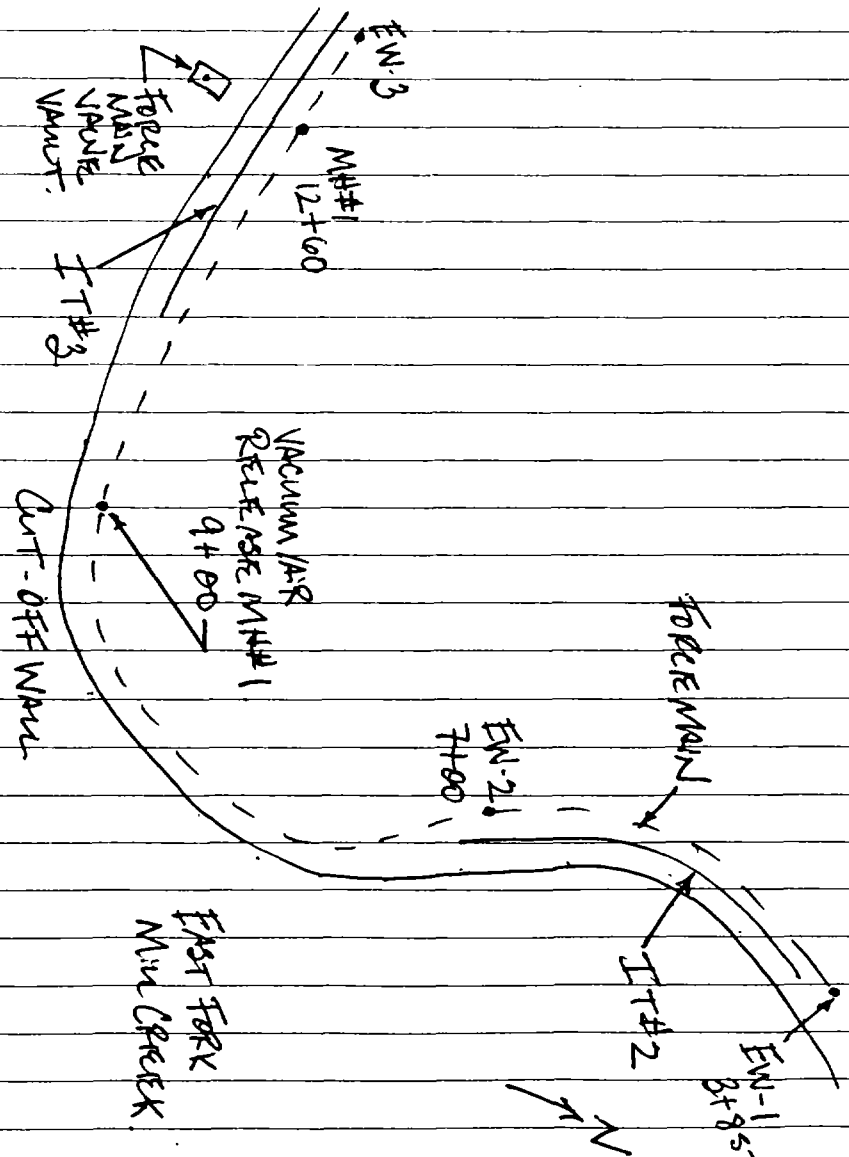
8/15/01 WEDNESDAY.

M. Brady

W/IN A FEW FEET, E.T. MAY HAVE TO
WORK SOMETHING OUT W/ THE ADJACENT
PROPERTY OWNER PRIOR TO DEPLOYING LINER.

1425 E.T. IS STILL CONSTRUCTING GABION BASKETS
ALONG THE CREEK.

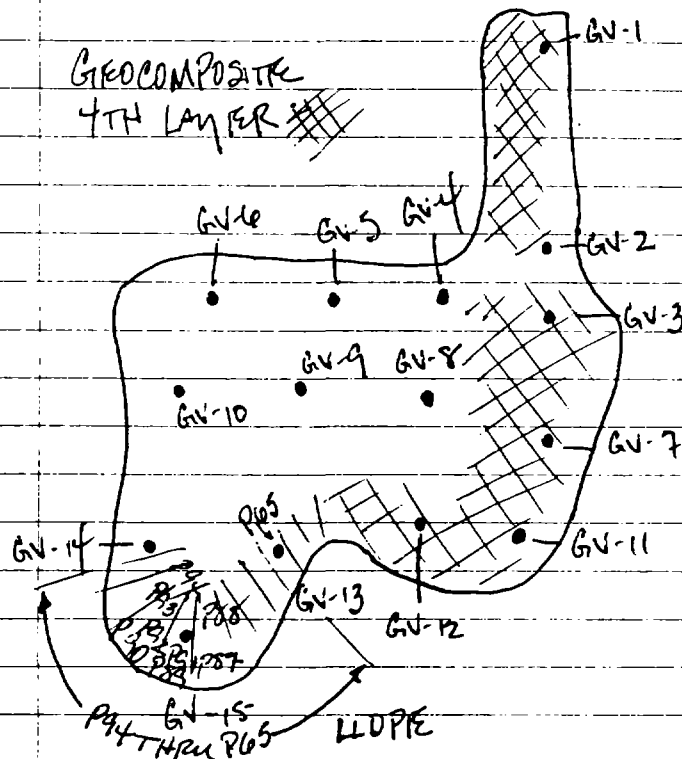
JOE KRUGER - COA ESTIMATES ONE TO TWO
WEEKS B/F 'BLACKOUT' OF THE LF.



170

8/15/01 WEDNESDAY

M. BRADY



1445 E.T. IS STILL WORKING ON GABION BASKETS.

THEY WILL INSTALL ABOUT 200' OF THE REINFORCING WALL ALONG THE CREEK BANK.

1500 SPOKE WITH ABOUT MIDAM WORKING SUNDAY

8/26. SCOTT HANSEN SAID O.K. BUT MIDAM MUST GO THRU E.T.

1530. PROTERRA IS DEWATERING THE TRENCH NEAR EW-1 INTO EW-2.

1610 E.T. IS NOW WORKING ON THE ACCESS RD B/W GV-2 & GV-3 MIDAM IS LINING THIS RD

1620. SPOKE WITH HENRY ABOUT WORKING SUNDAY AUG. 26. HE SHOULD TALK TO JASON RICK WARWICK ON-SITE.

1640 M. BRADY OFF SITE.

[Signature] 8/15/01.

8/16/01 THURSDAY

M. Brady

1200. MTG W/ MARK WEIDNER ABOUT CONSTR
OVERSIGHT FOR NEXT WEEK. MARK WILL
TAKE MY PLACE @ SKINNER L.F. UNTIL I
RETURN. BRIEFED MARK ON L.F. CAP, FORCE
MAIN WORK, CONST. OF GABION BASKETS &
CONTAMINATED SOIL AREA BR01 BR02.

1315 LEFT OFFICE FOR SKINNER L.F.

1350 C SKINNER L.F. OVERCAST & LIGHT RAIN
80°F

1410 PROTERRA IS DONE FOR THE DAY

E.T. IS COMPACTING SOIL @ THE CENTER
OF THE L.F. E.T. IS ALSO BUILDING &
COMPACTING DIVERSION BERMS UPGRADIENT
OF THE DEPLOYED LINER. ET LINED THE
ACCESS ROAD BLW GV2 & GV3

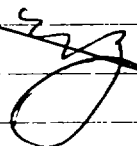
E.T. CONTINUES TO BUILD THE
REINFORCING GABION WALL ALONG THE
CREEK BANK.

MIDAM COMPLETED DETAIL WORK @
THE ACCESS RD & AT THE S BORROW
AREA ABOUT 1/2 OF THE DEPLOYED
LIDPE NEEDS TO BE DETAILED YET.
THIS WILL BE COMPLETED TOMORROW IF
IT DOESN'T RAIN.

1515 MIDAM DONE FOR THE DAY.

1530 E.T. DONE FOR THE DAY.

1545 M. BRADY OFF SITE TO OFFICE

 8/16/01

8/17/01 FRIDAY.

M. BRADY

1200. LEFT OFFICE FOR SKINNER LF.

1235 C. SKINNER, Sunny, 85°F.

AREA BPO1/BPO2 STILL AN OPEN EXC.

1245 JASON GUENTHER SAID THAT BPO1/BPO2
WILL BE SAMPLED NEXT MONDAY, 8/20.E.T. MAY RUN INTO SOME LOGISTICS PROBLEMS
W/ THE OLD EQUIP. NEAR THE EXC. ASWELL AS PULL-OFF BOXES JASON WILL
ALSO HAVE TO FIND SOME PLACE ON TOP

OF THE LF TO BURY THE EXC. SOIL.

1310. SPOKE W/ M. WEIDNER ABOUT THE
OVEREXC. & SAMPLING OF BPO1/BPO2.

IT SHOULD TAKE PLACE MOND. AFTERNOON.

1345 E.T. STILL CONSTRUCTION OF GABION WALL
@ THE CREEK BANK. EXC. OF THE CREEK
BANK WALL IS NEARLY FINISHED.1320. MIDAM DETAILING LINER NEAR THE
ACCESS RD B/W GV-2 & GV-3.1350 MIDAM TIED IN TO THE N-S PANELS W/
E-W PANELS. THEY CAN NOW DEPLOY
FASTER THAN BEFORE. B/C OF THE FLAT
SURFACE HENRY STEINBAUGH EXPECTS
TO BE FINISHED NEXT WEEK IF THE
WEATHER HELDS OUT.1420 ACCORDING TO JOE KRUGIER & HENRY S., E.T.
MAY HAVE ~ 15 DAYS LEFT TO COVER THE
GEOCOMPOSITE DRAINAGE LAYER @ THE
N. BORROW AREA.

1500 E.T. HAS REMOVED THE EAST, 8-INCH DAM.

WHEN C. ET #2. BY ACCIDENT. THE
DOZER OPERATOR RAN IT OVER.

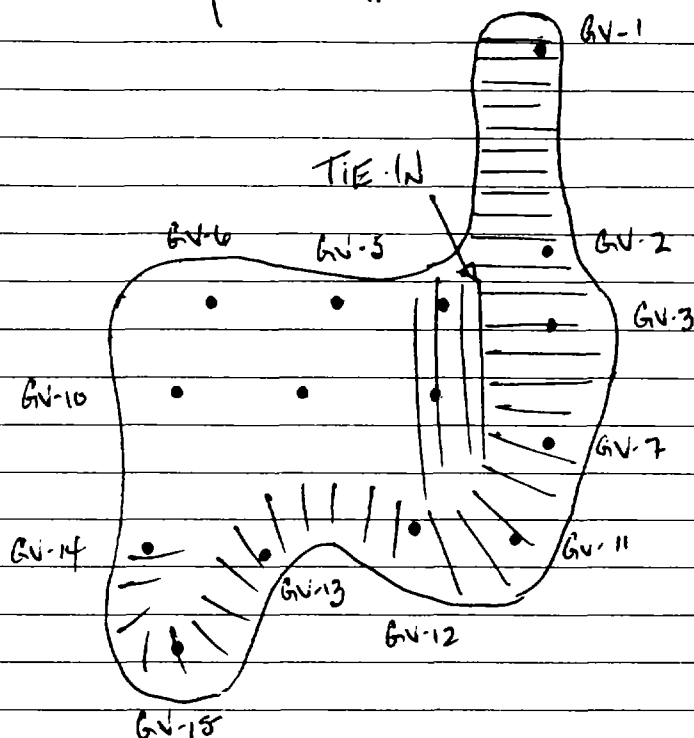
PRO TERRA IS NOT ON-SITE TO INFORM.

E.T. MAY HAVE TO REPAIR THIS WELL.

8/17/01 FRIDAY

M. BRADY

PANEL LAYOUT SO FAR



1515 HENRY PLANS ON WORKING THIS SAT & SUN.
8/18 AND 8/19.

1530 ET DONE FOR THE DAY.

1550 JOE KRUGIER, COA. TO MARK RESTRICTS
ON THE LDPF NEAR THE S BORROW.
AREA.

1615 MIDAM. CONTINUES TO DEPLOY LINE
NORTH TO SOUTH. PERPENDICULAR TO
OTHER.

1630 M. BRADY OFF SITE.

8/17/01

08/20/01 Monday

Mark Weidner

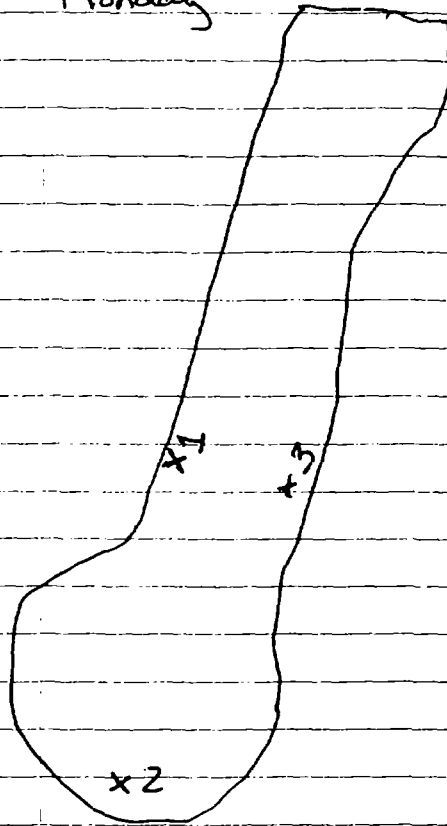
11:30 Left office for Skinner Landfill

12:30 Arrived at Skinner Landfill. 75°F,
Mostly Cloudy.1245 Electricians are working on the sumps
on the south side of the landfill.1300 No new liner has been installed today
because of the rain over the weekend.
Some of the GCL will need to be removed
and replaced because it got wet.1315 Silt Fence on the haul road is down
from the storm.1400 Pumped water from the force main
junction vault. The vault is filled with
two inches of silt on the bottom.
Pro-Terra said that they won't be
pressure testing the leachate force
main until tomorrow.1410 E.T. is pushing dirt on top of the liner
with a dozer. The lifts appear to be
2 feet in height.1430 E.T. is installing the haul road around
the landfill. They are excavating soil from
the north borrow area and trucking it
to the haul road.1500 E.T. is continuing to repair the subgrade
from the rain storm.1515 Mid-America is continuing to do patch
work on the liner. They are also installing
the slip boots on the wells.1530 E.T. stopped working on the haul road & started
installing the gabion baskets.

8/20/01 Monday

Mark Weidner

↑ N



1615 Began excavating BP @ #1.
1650 Began excavating BP @ #2.
1700 Second truck arrived onsite.
1700 Mark Weidner offsite

MW

8/20/01

08/21/01 Tuesday

Mark Weidner

11:30 Left office to go to Skinner Landfill

12:05 Arrived onsite. Temperature 88°F. Sunny.

12:20 Continued work on the rip rap channel
Placed approximately 80 feet of gabion fence.

1240 Mid-America replaced bad sections of GCL.

1300 Started Pressure testing the main leachate
line. Initial gauge pressure 118 psig.

1320 Pressure Dropped to 117 psig

1330 Pressure Dropped to 115 psig. Testing is
being performed on the air-release manifold.1340 Pro-Terra hooked the ^{MW 8/21/01} air compressor hydrostatic
pump to increase the pressure in the pump.
John Hayes said that the pipe held 90 psi
of pressure all night last night. The current
test failed.1400 Aaron w/ E.T. said that Pro-Terra needs
to get a threaded Thermometer. The retest will
take place in approximately two hours. Jason
w/ E.T. informed me that samples and
excavation of the BPs was completed
last evening @ 2030.1420 Mid-America put down an additional 360'x11
of geocomposite & GCL down on the top of
the landfill.1530 Observation well #4 or #5 appears to be
damaged by a collision. See Friday 8/17/011545 The vegetative layer @ the north end is
approximately 30% finished.1550 E.T. digging out some of the subgrade
to vent the area to dry out the subgrade.1600 Started the hydrostatic test for the leachate
line. For

8/21/01 Tuesday

Mark Weidert 77

Time	Temp. (°F)	Pressure
1600	87	121 PSIG
1620	86	121 PSIG
1630	86	121 PSIG
1640	85.5	121 PSIG
1650	85.5	121 PSIG
1700	85.5	121 PSIG

1700 Test Appeared to have passed.

1730 E.T. continues to work on the creek bank. They are installing the gabion baskets, as well as the geotextile fabric.

1745 Left Site

8/21/01

mm

178

8/22/01

Mark Weiden

- 1030 Left office for Skinner Landfill
- 1115 Onsite. Raining heavily with a lot of lightning.
- 1145 No additional ~~liner~~ ^{liner} was deployed today. Mid America said that no liner will be deployed tomorrow either. It is likely to rain this evening.
- 1215 E.T. will start to install the gabion baskets today because the rain has stopped.
- 1230 Pro-Terra demobilized the ~~area~~ ^{rock box} ~~track box~~ ^{not in 8/22/01}. Pro-Terra is no longer on the critical path. E.T. will not be doing any earthwork today.
- 1240 Mark Weiden left worksite

8/22/01

3/2

8/23/01

Mark Weidner

1215

Left office for Skinner Landfill

1300

Arrived on site. Overcast skies, very humid w/ slight sprinkles of rain. Temperature at 85°F

1330

Pro-Terra and the electrical subcontractor are finishing the installation of the conduit for the electrical utilities. Installed 3 - 2" sections of PVC pipe for conduit

1345

E.T. is finishing the gabion baskets in the channel. Some of the gabion baskets are filled with mud.

1400

Mid-America is installing the geocomposite over the geomembrane. They installed the geocomposite over the small section of "roadway" ^{near} ~~the~~ the tip of the landfill.

1415

E.T. is continuing to push cover soil over the liner @ the tip of the landfill. I found some broken pipe material from the rolls of the GCL. They were broken in small sharp sections and settling on the geomembrane liner. E.T. QC man asked Pro-Terra supervisor to clean the debris off the liner. E.T. is also continuing the move dirt for the haul road around the landfill. The tip of the landfill is about 40% covered.

1430

New rolls of GCL and geocomposite arrived this morning. Additional samples of these rolls were taken. New geomembrane will be arriving next week.

1440

E.T. is installing the cover soil for the liner termination of the southern slope. It just started drizzling again.

180

8/23/01

Mark Weidner

1510 CKD tractor trailer arrived on site
to help dry out some areas on the knifill
that are too wet.

1530 Mark Weidner left site

8/23/01

122

8/27/01 MONDAY.

M. BRADY

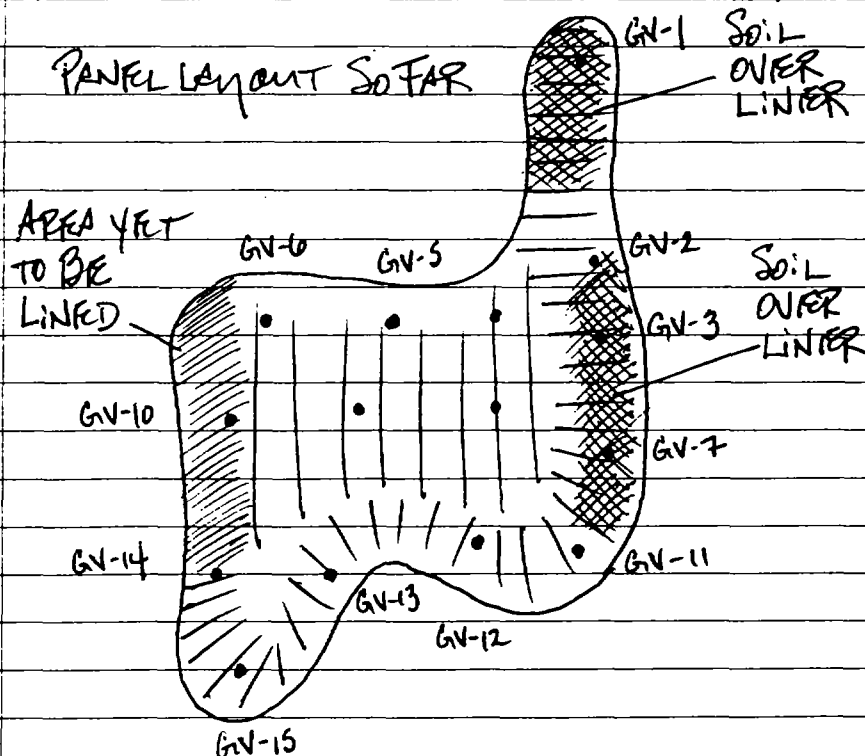
1215 LEFT OFFICE FOR SKINNER L.F.

1245 @ SKINNER L.F. HOT & HUMID 85°F.

AREA BPO1/BPO2 STILL AN OPEN EXC.

1300. TWO PROTERRA EMPLOYEES ON-SITE.
WORKING ON THE FORCE MAIN VAULT
AND MAN HOLES. THE EAST 8-INCH DIA
WELL @ IT #2 HAS BEEN REPAIRED.1325 THE FORCE MAIN HAS NOT BEEN TIED IN TO
THE SANITARY LINE YET. PROTERRA
ESTIMATES COMPLETION OF THE FORCE MAIN
THIS WEEK.1400. MIDAM IS ALMOST @ 'BLACKOUT' ABOUT
90% SOIL COVERAGE. 100 FT TO 200 FT
LINEAR EAST TO WEST ARE YET TO BE
COVERED. MIDAM SUPERVISOR HENRY
STEINBAUGH ESTIMATES 'BLACKOUT' BY
THE END OF THIS WEEK IF WEATHER HOLDS.

PANEL LAYOUT SO FAR



182

8/27/01 MONDAY

M. BRADY

1430. E.T. IS COVERING THE LINER W/ SOIL
IN THE N. BORROW AREA AND ALONG THE
SOUTH SLOPE. MIDAM IS DETAILING THE
DEPLOYED LINER. NO FURTHER DEPLOYMENT
TODAY.

1445. E.T. APPEARS TO BE FINISHED
CONSTRUCTING THE GABION BASKETS
ALONG THE BANK OF THE EAST FORK
OF MILL CREEK.

1515 M. BRADY OFF SITE

8/27/01

8/29/01 WEDNESDAY

M. BRADY

1200. LEFT OFFICE FOR SKINNER L.F.

1240 C SKINNER L.F. 85°F AND HUMID
SOIL CONT. AREA BRO1/BRO2 IS STILL AN
OPEN EXCAVATION.1255 PROTECTOR ON-SITE INSTALLING VAULT AND
MANHOLE COVERS THE WEST MANHOLE IS
HALF FILLED W/ WATER FROM HEAVY RAIN
YESTERDAY. THE SITE IS VERY MUDDY.1325 THE GABION BASKET WALL C THE CREEK
BANK APPEARS TO BE FINISHED. IT STARTS
C ABOUT 4+70 TO 6+80.1350. E.T. IS COVERING THE LINER W/ SOIL NEAR
THE NORTH BORROW AREA AND ALONG THE
SOUTH SIDE OF THE L.F.1435 MIDAM IS DETAILING THE INSTALLED LINER
ALONG THE NW SIDE GRINDING, EXTRUSION
WELDING, INSPECTING & CHECKING SEAMS
W/ A/V BOX. JOE KRUGER. COAN/EARTH
TECH MARKED THE 40TH DESTRUCT
SAMPLE LOCATION. HENRY STEINBAUGH CUT &
TESTED THE 3 DESTRUCTS. MIDAM QC
ESTIMATES 6 MORE PANELS TO BE DEPLOYED
B4 BLACKOUT. BLACKOUT SHOULD OCCUR
TOMORROW MORNING IF THE WEATHER IS DRY.1520. MOST OF THE LINER CREW WILL LEAVE
TOMORROW AFTER BLACKOUT FOR ANOTHER
JOB. 4 MIDAM EMPLOYEES WILL REMAIN.
E.T. ESTIMATES THAT MIDAM IS TWO
WEEKS BEHIND SCHEDULE NO FURTHER
DEPLOYMENT TODAY OR UNTIL THE SOIL
DRIES OUT.

1600. M. BRADY OFF-SITE.

8/29/01

8/30/01 THURSDAY

M. Brady

0730 LEFT HOME FOR SKINNER L.F.

0800. C. SKINNER L.F. OVERCAST, V. HUMID & FOGGY.
60°F. OM PATEL ON SITE0805 M. BRADY & OM PATEL SIGN IN C SITE
TRAILER.0815. MIDAM CREW DEPLOYING GFCO CAMP. & GCL C
NW CORNER OF THE L.F. MOST MIDAM
EMPLOYEES ARE NOT WEARING HARD HATS.
OR SAFETY GLASSES. ALSO SEVERAL OF THE
GVS VENTS & PNEUMETERS ARE BENT OFF
CENTER. SHIP SHEETS NEED TO BE USED
UNDER THE GENERATORS WHEN ON THE
PLASTIC.0900. M. BRADY & OM PATEL CONTINUE SITE
WALK. TO THE N. BARRON AREA WHERE E.T
IS COVERING THE LINER MT'L W/ 2 FT. OF
SOIL0930. CIT #2 & THE GABION WALL ALONG THE
CREEK BANK, OM NOTICED THAT THE GRADED
BANK IS VERY NEAR THE SLURRY-WALL LOCATION
AND WITHIN 10 FT. OF THE CIT #2. OM SUBSEQUENT
CALL SCOTT HANSEN ABOUT THIS MATTER1015 SPOKE W/ JASON GIVENTHER ABOUT UPCOMING WORK
(1) 'BLACKOUT' WILL OCCUR TODAY
(2) LEACHATE WATER STORED IN THE POLY TANK
HAS BEEN TESTED. ALL NON-DETECT.
(3) E.T WILL SUB CONTRACT THE WORK TO
DISPOSE OF THE DIESEL TANK & THE PROCESS
TANK (GLUE). LOCATED INSIDE THE FENCE
(4) THE PRELIMINARY FINAL-COVER GRADING
PLAN NEEDS TO BE EDITED TO SHOW THE
CORRECT LOCATION FOR 'LIMIT OF WASTE' AND
'EXTENT OF LINER'

8/30/01 THURSDAY

M. BRADY

- (5) THE UTILITY TRENCH FOR THE ELECT. CONDUIT HAS BEEN INSTALLED, BUT NOT COMPLETED. E.T. HAS PROPOSED A UTILITY TRENCH MODIFICATION
- (6) E.T. IS PROPOSING TO CONDUCT GEP PROBE WORK NEAR BPO1/BPO2 TO EVALUATE THE EXTENT OF WASTE MTL ANY EXCAVATED SOIL WILL BE HAULED OFF-SITE. OM MENTIONED THAT CHANGING THE POD WOULD BE DIFFICULT B/C OF THE REVIEW PROCESS, TRIGGER LEVELS, OFF-SITE CONTAMINATION & THE PERCEPTION TO THE COMMUNITY OF WEST CHESTER.
- (7) MONITOR WELL INSTALLATION SHOULD BEGIN NEXT TUESDAY, 4 SEPT. 01 W/ E.T. GEOLOGIST(S).
- (8) SOME OF RAY SKINNER'S EQUIP. / TRASH WILL HAVE TO BE MOVED IN ORDER TO INSTALL UTILITY TRENCHES
- (9) E.T.'S CALCULATIONS SUGGEST THAT THERE'S ENOUGH SOIL IN THE 2 BORROW AREAS TO COVER THE LF & BACKFILL AREA BPO1/BPO2.
- (10) THE DEAD TREES W/IN THE DUCK POND WILL HAVE TO BE REMOVED, BUT ONE IS ON THE PROPERTY BOUNDARY.
- (11) A COUPLE OF THE MWS WILL HAVE TO BE RELOCATED B/C OF LIMITED SPACE. A PROPOSAL IS IN THE WORKS.
- (12) THE BEST GAS VENTS & PIEZOMETERS WILL BE REPAIRED BY EARTH TECH. OR MIDAM B/F THE FINAL COVER IS DOWN.
- (13) AN ON-SITE TREATMENT SYSTEM MAY HAVE TO BE INSTALLED IF THE LEACHATE

8/30/01 THURSDAY.

M. BRADY

CONTAINS ANALYTES ABOVE CERTAIN LEVELS

1145 DAM PATROL OFF SITE.

1215 TOOK PHOTOS OF THE GABION WALL. THE
8-INCH DIA. MAN. W/LL IS INSIDE 10 FT OF
THE CREEK BANK. THERE'S NO ROOM TO
GRADE BACK ANY FURTHER. OTHERWISE
E.T. W/LL EXCAVATE INTO THE SHIPPY WALL.

1300 E.T. CONTINUES W/ THE FINAL COVER IN
THE N + EAST.

1320 MIDAM IS ALMOST FINISHED COVERING
THE SOIL.

1410 THE WEST-SIDE ANCHOR TRENCH IS
INSTALLED. DETAIL WORK IS SCHEDULED
FOR TOMORROW.

1530 M. BRADY OFF SITE

8/30/01.

9/4/01. TUESDAY

M. BRADY

1015 LEFT THE OFFICE FOR SKINNER LF.

1025 C CLICK CAMERA TO PLU PHOTOS OF SKINNER LF.

1100. C SKINNER LF. SUNNY & V. HUMID 80°F.

1115 JENNY DOWNARD ON SITE, E.T. GEOLOGIST, TO
 INSTALL MONITORING WELLS ADJACENT TO THE
 CUT-OFF WALL. THE DRAWING CONTRACTOR IS
 BOWSER-MORNER. WELL INSTALLATION WILL
 BEGIN @ THE WEST END OF THE SITE, ONCE
 THE LOCATIONS ARE MARKED BY THE SURVEYORS
 FROM BURGESS & NIPLE.

1145. JOE KRUGER, E.T. (COA) & FIVE MIDAM WORKERS
 ON-SITE TO COMPLETE THE LINER WORK. COA
 ESTIMATES THAT THE LINER WORK WILL BE
 COMPLETED BY THE END OF THE WEEK. 379
 REPAIRS TO THE LLDPE LINER ARE A RESULT
 PRIMARILY OF THE LOCATION OF BUTT SEAMS
 AND ORTHOGONAL SEAMS.

1200. E.T. CONTINUES TO CONSTRUCT THE TOP
 VEGETATIVE LAYER ALONG THE EAST SLOPE
 OF THE LF.

1215 VARIOUS GAS VENTS & PNEUMETERS ARE
 IN NEED OF REPAIR PRIOR TO COMPLETION OF
 THE FINAL GRADE WORK. ALL GAS VENTS &
 PNEZ. HAVE BEEN BOOSED. A PORT OF
 MIDAM. HOWEVER, THE LLDPE HAS EXPANDED &
 CONTRACTED ENOUGH THAT VARIOUS GAS VENTS
 HAVE ROTATED, AND SEVERAL PNEZ. ARE BENT,
 ONE BROKEN. - P. 8.

1230. SURVEYORS OFF SITE FOR LUNCH. E.T. &
 DRIVERS WAITING ^{FOR} THE SURVEYORS TO
 MARK WELL LOCATIONS AFTER LUNCH.

1245 IT APPEARS THAT ONLY ONE TRUCK LOAD OF
 R.P. RAP HAS BEEN DELIVERED.

9/4/01 TUESDAY

M. BRADY

1255 GREG PARKER, E.T. SITE MANAGER, WILL COVER FOR JASON GUENTHER THIS WEEK & NEXT.

1300. E.T. BACK FROM LUNCH

1315 SPOKE W/ DRILLERS ABOUT WELL & P.E.E. INSTALL. THEY COULDN'T ANSWER SPECIFICS. THEY'RE WAITING ON SUPPLIES B/F. STARTING.

1345 DRILLERS SET-UP C.G.W. SQ. JAWING DOWNWARD & THE DRILLERS BEGIN DRILLING & SOIL SAMPLING. DRILL PIG IS A B.C.I.

1400. TIM AUCH ON SITE

1410. SEDIMENT / BEDROCK SAMPLES AREN'T BEING STORED IN CORE BOXES AS OUTLINED IN SECT. 3.2 OF THE RAISED SAMPLING PLAN.

1430. SPOKE W/ JASON GUENTHER ABOUT THE USE OF CORE BOXES. HE BELIEVES IT'S NOT NEEDED. HE ALSO MENTIONED THE POSSIBILITY OF USING TRACK HOES INSTEAD OF A GEOPROBE PIG C BPO1 / BPO2

1450. TIM AUCH OFF SITE

1540. DRILLERS DOWN TO 22' BGS C.G.W. SQ. NO. WATER YET. IT'S POSSIBLE THAT THE CUT-OFF WALL IS PREVENTING MOST OF THE LEACHATE & GROUNDWATER FROM SATURATING THE AREA IN THE VICINITY OF G.W. SQ.

1545. E.T. HAS DIRECTED THE DRILLERS TO FIN THE BORING W/ BENTONITE PELLETS TO APPROX. 13' BGS W/ ONE FOOT OF SAND AND THEN SET THE 2 INCH DIA. WELL EVEN THOUGH THERE'S NO INDICATION OF A PERCHED ZONE

1620. MIDAM DETAILING THE LDPE & E.T. COVERING THE WEST EDGE OF THE LDPE W/ SEAL. 379 PELTS TOTAL, 109 PANELS TOTAL.

1630. SPOKE W/ OM PATRICK ABOUT SETTING A DRY

9/4/01 TUESDAY

M. BRADY

WILL C. GINSQ. CONFERENCE CALL W/ SCOTT
HANSEN. LEFT MSG. FOR SCOTT ABOUT
GWSQ. POW FORUMER MADE THE DECISION TO
GET THE DRY WELL. THIS MAY BE THE
STANDARD PROTOCOL FOR SUBSEQUENT WELLS.

1650. THE DRILLERS WEREN'T ANTICIPATING
USING BREXTONITE PELLETS TO BACKFILL
A BOREHOLE. THEY DIDN'T HAVE THE
SUPPLIES TO COMPLETE THE JOB. THEY
HAD TO STOP FOR THE DAY & BRING
SUPPLIES TOMORROW.

1700. M. BRADY OFF SITE

9/4/01

9/5/01 WEDNESDAY

M. BRADY

0930 LEFT OFFICE FOR SKINNER L.F.

0945 FILM TO CLICK CAMERA

1015 @ SKINNER L.F. SUNNY. 75°F. THE ELECTRIC.
HILBERT & POPE ARE ON-SITE INSTALLING
TELEPHONE POLES ALONG THE MAIN
ACCESS RD

1045 PAT HIGGINS, E.T. GEOLOGIST, IS ON-SITE
COLLECTING SOIL SAMPLES FROM CONT. SOIL AREA
BP-01/BP-02. BOWSER-MORNER IS THE SUB.
& WILL BE USING A TRUCK-MOUNTED
GEO PROBE UNIT.

1110. INFO. FROM TIM ANCH INDICATES THAT
E.T. HAS SET TWO DRY WELLS GW-59
AND GW-60. NO SATURATED ZONE WAS
ENCOUNTERED @ EITHER LOCATION.

JENNY DOWNARD SUGGESTED THAT THE
BORINGS FOR GW-59 & GW-60 WENT TO
BIR CONTACTED ON PATEL.

1130. THE DRILLERS SAID THAT THEY DID NOT
ENCOUNTER BIR OR A SAT. ZONE @ GW-59.
ALSO, A SAT. ZONE WAS NOT ENCOUNTERED
@ GW-60. BUT BIR WAS @ 8' BGS. & THE
WELL WAS SET @ 12' BGS. 4' INTO BIR
BOTH WELLS HAVE 10' SCREENS 2" INCH DIA.
THE SAND PACK @ BOTH WELLS WAS @ 1 1/2'
ABOVE THE TOP OF SCREEN & THEN PELLETS.

1145 E.T. & BOWSER-MORNER SET-UP @ BP-01/BP-02
BORINGS WILL BE 4' DEEP @ 12 TO 20
LOCATIONS DUE TO FOUR 'HOT' SPOTS @
THE EXCAVATION. SOIL SAMPLES WILL BE
COLLECTED @ 3 1/2' BGS.

1155 E.T. & BOWSER-MORNER START THE
GEO PROBE WORK. CUTTINGS WILL BE STOCKPILED

9/15/01 WEDNESDAY

M. BRADY

1245 E.T. & DOWNER-MORNER START DRIVING @ GW-61.

1345 WRT ZONE C ~ 12' BGS @ GW-61. S & G.
DRY BIF & AFTER THIS ZONE

1445 C 19' BGS. - DRY

1420 E.T. HAS INSTALLED LARGE RIP RAP & FABRIC ON EITHER END OF THE GABION WALL

1445 E.T. IS UNCOVERING THE DRAINAGE LAYER @ THE DUCK POND B/C IT SHOULD DAY LIGHT @ THE PERIMETER. THIS IS THE ONLY AREA, SO FAR, THAT HAS BEEN COVERED W/ SOIL BY MISTAKE.

1515 SPOKE W/ JASON ABOUT GW-02A & 02B. THE SURVEY STAKES @ THESE TWO LOCATIONS ARE ACTUALLY IN THE CREEK & ON TOP OF THE GABION WALL. A DETERMINATION BY E.T. HAS NOT YET BEEN MADE TO RELOCATE THE TWO WELLS.

1530 GW-61. TD = 19' BGS. BACKFILLED W/ BENTONITE CHIPS TO 15' BGS, 10' SCREEN, 12' OF #5 SAND & 1' OF #7 SAND, CHIPS TO THE SURFACE. THE WRT ZONE C GW-61 WAS @ 10-12' BGS.

1600 MIDAM. PLANS ON FINISHING TOMORROW. THEY HAVE 45,000 FT² TO COVER YET. YESTERDAY THEY COVERED APPROX 75,000 FT².

AT SEVERAL LOCATIONS ON THE DEPLOYED DRAINAGE LAYER, THE TOP LAYER OF FABRIC HAS BEEN RIPPED OR WORN, EXPOSING THE GEONET. I ASKED THE MIDAM QC ABOUT THIS. HE SAID HE WOULD TALK TO JOE KRUGIER E.T. CQA TOMORROW.

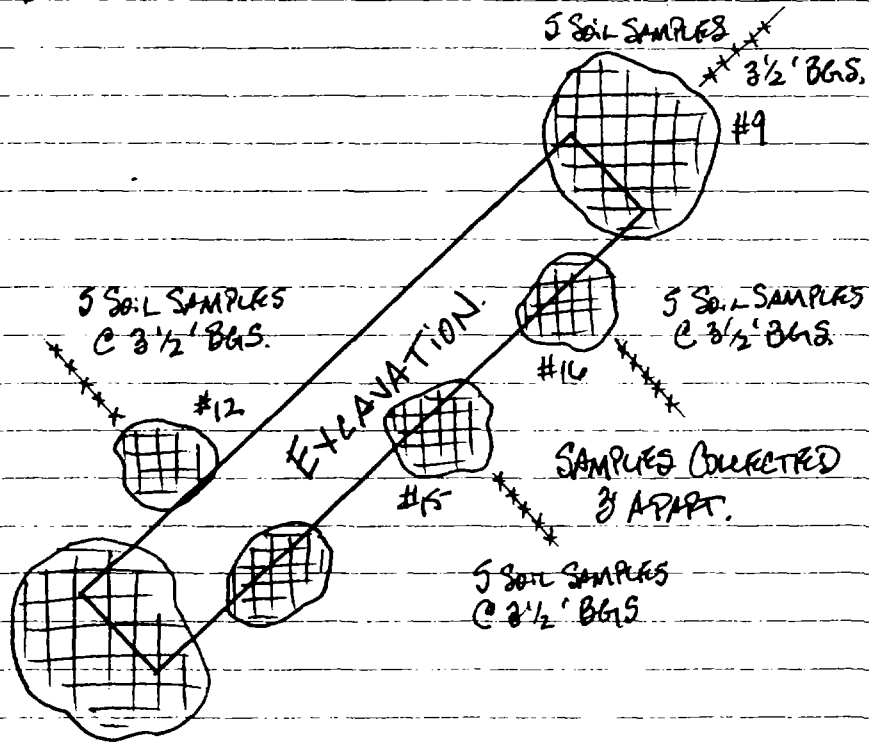
9/3/01 WEDNESDAY

M. BRADY

1610. RAY SKINNER ON SITE @ THE EXCAVATION.

- BLDG/CINDER BLOCKS IN THE EXC. @ 1/2 PER.
- THIS PAST WEEKEND, A DRUNK DROVE HIS CAR INTO THE EXC., RAY HAD TO TOW HIM OUT. THE DRUNK IS NOW IN ICU @ A LOCAL HOSPITAL.

- RAY COMMENTED ABOUT A POSSIBLE LAW SUIT.
- RAY SHOWED E.T. THE LOCATION OF A BURIED WATER LINE & ELEC. LINE.



1615 A TOTAL OF 20 SOIL SAMPLES USING A
GEOPROBE @ BPO1/BPO2

1630. M. BRADY OFF-SITE

9/5/01

9/6/01 THURSDAY

M. Brady

1000. LEFT THE OFFICE FOR SKINNER LF
- 1015 C. CLK CAMERA TO PLU PHOTOS.
- 1045 C. SKINNER LF. Sunny 80°F. BPO1/BPO2 STU AN OPEN EXC.
1100. SEMI-TRUCK ON SITE TO PLU EXCESS LINER MT'L
- 1115 GW-05, FEW INCHES WTD BPR. TD=15', 10' SCREEN. CLAY, TRACE GRAVEL, #5 & #7 SAND BPR. GW-04. C 11' SHALE. TD=14', S&G C 8-11' BGS. SATURATED #5 & #7 SAND.
1200. DRIVERS CHURCH. GAS PROBES TO BE INSTALLED AFTER LUNCH.
- 1215 MIDAM ALMOST DONE W/ THE GEDCOM? DRAIN LAYER THEN SHOULD BE DONE TODAY.
1230. E.T. CONSTRUCTING ADD'L LAYERS OF THE GABION WALL.
1300. THE TRUCK DRIVER HERE TO PLU THE EXCESS LINER MT'L FELL OFF HIS FLAT BED ONTO HIS HEAD & BLACKED-OUT. E.T. CONTACTED EMS FROM WEST CHESTER. THE DRIVER REFUSED MED. ATT'N. HE APPEARED TO BE O.K. & DROVE OFF SITE.
1330. E.T. IS REMOVING THE FABRIC MT'L FROM ALONG THE CREEK BANK NEAR THE GABION WALL.
- 1340 BOWSER-MORNER STARTS DRILLING C. GW-03.
1355. A WET ZONE C 6-8' BGS. MOSTLY SAND.
- 1405 STICK WET C 8-10' BGS. S&G. NOTE: A TRACK RIG WILL BE AVAILABLE MONDAY FOR DRILLING.
- 1420 WET C 11'-12' BGS. POOR RECOVERY. SAND IN THE SPIN.
- 1520 DONE C. GW-03.

9/4/01 THURSDAY.

M. BRADY

1545 E.T. CONTINUES TO BUILD THE GABION WALL. RON POKER HAS DECIDED TO ADD TWO LAYERS TO THE WALL, OFF-SETTING THEM SLIGHTLY. E.T. ALSO CONTINUES TO CONSTRUCT THE VEG. LAYER ON TOP OF THE L.E. AARON BENSON IS COX REPLACING JOE KRUGER

1600. MIDAM IS 997. DONE INSTALLING THE DRAINAGE LAYER THEY'LL FINISH THIS EVENING.

1630 M. BRADY OFF-SITE

Sig
9/6/01.

17/01 Friday

M. BRADY

0945 LEFT OFFICE FOR SKINNER L.F.

1000 C CLICK CAMERA TO HAVE FILM DEVELOPPED

1035 C SKINNER L.F. Sunny & Hot. Windy 88°F
BPO1/BPO2 Still An Open Exc.1100. MIDAM LOADING UP THE TRAILER & VEHICLES
W/ SUPPLIES. THEY'RE DAVE C SKINNER
JOE KRUGER SIGNED OFF FOR EARTH TECH
SEVERAL PALS OF LINER M'L REMAIN C
THE SITE NEAR THE TRAILER1120. INSPECTED THE EXPOSED DRAINAGE LAYER
ON TOP OF THE LANDFILL MIDAM. USED
FABRIC PATCHES AND THE LESTER TO
COVER EXPOSED GEONET.1145 THE DRAINAGE LAYER APPEARS TO BE
EXPOSED ALONG THE ENTIRE PERIMETER OF
THE LANDFILL. DAYLIGHTING1200. EARTH TECH IS BUILDING UP THE VEG. COVER
ALONG THE NORTH EAST PORTION OF THE L.F.
SOME OF THE GAS VENTS AND PERIMETERS
ARE STILL IN NEED OF REPAIR.BOWSER-MORNER HAS COMPLETED THE WELL
PAD INSTALLATION C GW-59, 60, 61, U2 & U3
U5. THE WELLS ARE NOT LOCKEDBOWSER-MORNER HAS ABANDONED GW-25
LOCATED SOUTH OF THE CREEK. THE WELL
WAS SEALED USING A CEMENT-BENTONITE
GROUT. THE PROTECTIVE CASING WAS CUT OFF
C THE SURFACE. THE WELL WAS 16' BG2

1215 MIDAM CREW OFF-SITE JOE KRUGER OFF-SITE

1300 TWO EARTH-TECH EMPLOYEES & ONE HUN EQUIP.
OPERATOR ARE BUILDING UP THE GABION WALL.
THE WORK IS V. LABOR INTENSIVE & TIME-
CONSUMING W/ ONLY TWO WORKERS.

9/7/01 Friday

M. BRADY

EARTH TECH & BOWSER-MORROW WILL BEGIN THE FIRE & GAS PROBE WST. 1ST THING MONDAY MORNING.

1345 E.T. IS EXTENDING TWO ACCESS PDS OUT ONTO THE LINER. THE PDS ARE APPROX 6' HIGH, ONCE THE PDS EXTEND OUT FAR ENOUGH, THEY'LL BE LEVERED OUT.

1430. SPOKE W/ JASON GUMENBERG ABOUT THE GAS VENTS & FIRE. THAT NEED REPAIRS. E.T. WILL REPAIR THEM NEXT WK & MURRAY WILL COME BACK OUT TO REBOOT THEM. E.T. WILL BE WORKING TOMORROW.

1515 SPOKE W/ GREG PARKER ABOUT SURVEY MARKS @ THE ANCHOR TRENCH. E.T. WILL UNCOVER THE GEOCOMPOSITE DRAINAGE LAYER @ THESE LOCATIONS AND CUT OFF ANY EXCESS MTL. THE DRAINAGE LAYER NEEDS TO DAUNLIGHT @ THE PERIMETER OF THE LF.

JASON WILL BE OFF-SITE NEXT WEEK.

AARON BENSON IS THE CRA FOR THE SOIL. NO WORD YET ABOUT THE SOIL SAMPLE LAB RESULTS FROM BPO1/BPO2.

1610 M. BRADY OFF-SITE

223 9/7/01

9/10/01 MONDAY

M. BRADY

0945 LEFT THE OFFICE FOR SKINNER

1000 C. CLICK CAMERA TO PLU PHOTO 2

1035 C SKINNER L.F. PARTLY CLOUDY, WET TO F.
THE SITE IS V. MUDDY B/C OF HEAVY RAIN
YESTERDAY. BPO1/BPO2 STILL OPEN.

1100. HILBERT & POPE ON SITE.

JENNY DOWARD, E-T GEOLOGIST WAITING
FOR BOWSER-MORNER DRILLERS TO ARRIVE1130 JENNY COLLECTED RUN-OFF SAMPLE FROM
ONE LOCATION NEAR THE EAST END OF IT#1

1140 BOWSER-MORNER ARRIVES W/ LATU PGE

E-T IS MOVING SOIL ON TOP OF THE LF
NO ONE IS WORKING ON THE GABRIEL WALL1200. E-T & BOWSER-MORNER WILL START TO INSTALL
THE GAS PROBES TODAY. CONC. - BRU ON SITE.

1215 T.M. AUCH. PPP OVERSIGHT ON SITE

1225 BOWSER-MORNER C LUNCH

1300 JENNY CONTINUES TO COLLECT RUN-OFF
SAMPLES @ CREEK LEVEL. DUP & MS/MSD
ALSO COLLECTED.1320 BOWSER-MORNER ON SITE. SUPPLIES ARE
STAGED NEAR THE ENTRANCE OF THE LF1350 E-T WILL USE A #3 SAND VS. 3/8" PEA
GRAVEL FOR THE GAS PROBES & E-T WILL
USE A #3 #4, & #5 SAND MIX @ A 2:2:1
RATIO FOR THE FILTER PACK1430 BOWSER-MORNER SET UP C GAS PROBE #7
BEGIN DRILLING. BIR IS SHALLOW @ THIS LOCATION

1505 WEATHERED BIR C - 5-6' BGS 72 BLOWS

1530 100 BLOWS OVER 3 INCHES.

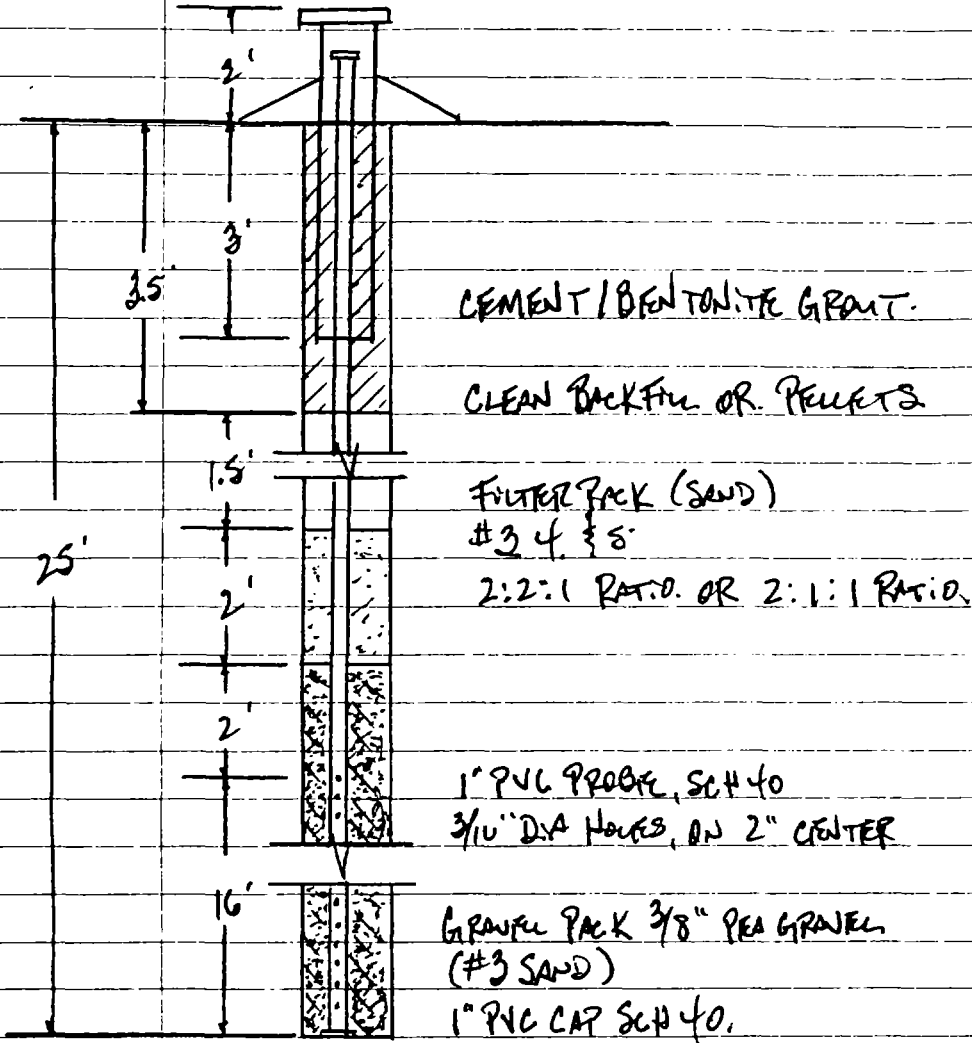
1545 DRILLERS AUGER ANOTHER FOOT TO 7' BGS

1600 JENNY DOWARD CONTACTS THE PROJ.
ENGR, PAUL PARKER, ABOUT CONSTRUCTION.

9/10/01 MONDAY

M. BRADY

PROPOSED GAS PROBE CONSTRUCTION.



10/15 GAS PROBE #7 IS 7' BGS. 3' SCREEN OF PERFORATED PVC PIPE, 4' OF #3 SAND, 1' OF #3 #4 #5 SAND + BENTONITE PELLETS TO THE SURFACE.

10/15 M. BRADY OFF-SITE

2/3 9/10/01

9/11/01 TUESDAY

M. BRADY

- 1000 LEFT OFFICE FOR SKINNER LF
1030. C SKINNER LF. SUNNY. COOL. 70° F.
BPO1/BPO2 STILL OPEN. E.T. BUILDING
GABON BASKETS. HILBERT & POPPE ON SITE
E.T. FIELD EMPLOYEES LISTENING TO RADIOS
ABOUT ATTACKS ON NY CITY WORLD TRADE
CENTER & WASH. DC
- 1045 BOWSER-MORNER DRIVERS OFF-SITE TO PLU
SUPPLIES. † TO FIX THE ATV DRILL PG. BOWSER
MORNER BEGAN DRIVING GAS PROBE #5
THIS MORNING, BUT THE PG BROKE DOWN. THE
DRIVERS GOT DOWN TO 10' - 12' BGS B/F
STOPPING.
1100. E.T. CONTINUES TO CONSTRUCT THE VEG.
LINER ON THE LF.
- 1145 REVIEWED THE PENCIL LAYOUT W/ RICK WARWICK.
ALSO REVIEWED THE LIMITS OF THE CAP.
IT APPEARS THAT THE TWO FIGURES DON'T
AGREE ALONG THE S-SE PERIMETER.
NOT SURE IF ALL WASTE HAS BEEN COVERED
BY THE LINER MTL
1230. M. BRADY OFF-SITE
1300. M. BRADY @ THE OFFICE

9/11/01

9/12/01 WEDNESDAY

M. BRAD

0915 LEFT THE OFFICE FOR SKINNER LF.

0945 C SKINNER LF. Sunny. 70 F

1000. HILBERT & POPE PUMPING ELEC. LINE FROM THE START OF THE ACCESS RD TO THE LF GATE

1020. E.T. IS PUMPING IT #2 AS PART OF A PRE START UP SAMPLING EFFORT.

1030. 13 TO 16 GABION BASKETS PER ROW. E.T. IS NOW CONSTRUCTING THE FINAL, 5TH, TIER OF BASKETS.

1100. GP-5 TD = 11' BGS, B/R. 7.5' BGS. NO WATER
6' PERF. PVC PIPE. 7' #3 SAND, #3.4 & 5 MIX1105. GP-8 TD = 10' BGS, B/R @ 7' BGS. NO WATER
5' PERF. PVC PIPE. 9' #3 SAND, #3.4 & 5 MIX

1110. C GP-10. DOWN TO 4' BGS. SPOKE W/ M ABOUT THE S. LOBE & EXTENDING THE LINER. THE LINER MAY NOT COVER THE WASTE MT'L IN THIS AREA. ALSO GREG PARKER MENTIONED THAT E.T. WILL BE EXTENDING LINER IN THE NW CORNER NEAR THE DECON PAD. WASTE MT'L IS EXPOSED @ THE SURFACE IN THIS AREA.

1120. PRE FINAL INSPECTION 27 SEPT. 01.

1130. E.T. CONTINUES TO CONSTRUCT THE VEG COVER.

1200. BOWSER-MARTIN TO 18' BGS @ GP-10, NO B/R YET. WET. THE LOCATION OF GP-10 IS APPROX 50' NE OF GW-65.

1215 E.T. WILL REPAIR THE GAS VENTS & PRESSUREMETERS ON TOP OF THE LF TH. OR FRIDAY THIS WEEK. MIDAM. LINER WILL COME OUT TO THE SITE MONDAY, 17 SEPT. TO RE-BOOT VENTS & PREZ. & EXTEND LINER.

9/12/01 WEDNESDAY

M. BRADY

1230 E.T. CONTINUES TO INSTALL THE VEG. COVER AND CONSTRUCT ACCESS ROADS

1330 E.T. HAS PUMPED ~ 18,000 GALS OF WATER FROM IT #2 INTO A FRAC TANK. E.T. PUMPED FOR 5 HOURS YESTERDAY STARTING @ 1300. ELECT. INSPECTOR AN-SITE HILBERT POPE RUNNING THE ELECT. CABLE

1400 C.G.W.-65, WL = 16.63' BELOW TAC, TD = 17.05' BELOW TAC

1405 GP-10, TD = 21.5' BGS, 16' PERT. PVC SCREEN 1" DIAM.

1409 C.G.W.-64, WL = 9.91' BELOW TAC, TD = 16.57' BELOW TAC

1415 C.G.W.-63, WL = 9.58' BELOW TAC, TD = 17.37' BELOW TAC. 1' OF Silt @ Bottom

1421 C.G.W.-61, WL = 13.27' BELOW TAC, TD = 18.99' BELOW TAC

1425 C.G.W.-60, NO WATER TD = 14.91' BELOW TAC

1430 C.G.W.-59, WL = 13.08' BELOW TAC, TD = 16.31' BELOW TAC

1435 E.T. PREPARING TO SAMPLE THE FRAC TANK USED TO STORE WATER FROM IT #2 PURGING

1452 GP-10, 16' PERT. PVC SCREEN, #3 SAND TO 3 1/2' BGS, #3 #4 #5 MIX TO 2' BGS. PERKINS TO THE SURFACE THE MIX IS A 2:1:1 RATIO.

1500 E.T. SAMPLES FRAC. TANK W/ DISCRETE SAMPLER. E.T. & SUB CONTRACTOR SUPERIOR ENV. SVC (SES) ARE NEARLY DONE CONSTRUCTING THE GABION BASKETS. SOIL & RIP-RAP ARE PLACED ON THE SIDE SLOPE, BEHIND & ABOVE THE TOP MOST GABION BASKETS. NO FABRIC ON SLOPES THOUGH.

1520 BOWSER-MURNER DONE C.G.P.-10. NOW MOVING TO DECON PAD. DRIVERS WILL INSTALL GP-9 NEXT.

2

9/12/01 WEDNESDAY.

M. BRADY

1530. DRIVERS HAVE SOME DIFFICULTY ACCESSING
THE DECON PAD B/C OF THE CONSTRUCTION
OF THE LF CAP.

1640. M. BRADY OFF SITE


9/12/01.

9/3/01 THURSDAY

M. BRADY

0930. LEFT OFFICE FOR SKINNER L.F.
0945. C CLICK CAMERA DROP OFF. PROBLEM DISK.
1015. @ SKINNER Sunny. MND. TO F.
1020. HILVERT & POPE STRUCK OVERHEAD ELECT. LINE
1030. GP-9 DONE. TD= 10' BGS 10' PERF. PVC SCREEN 12' #3 SAND, 2' OF MIXED SAND #3 #4 & #5. MOIST SOIL, NOT WET. 6" INTO BIR.
1045. E.T. ESTIMATES THAT THE VEG. COVER TO BE INSTALLED BY NEXT WED. SUPERVISORS WILL PRE-SURVEY THE POINTS ALONG THE S. LOBE TODAY. E.T. SHORT ON HUNTED. OB; ONE QUIT. TWO CALLED OFF TODAY.
1100. THE GABION WALL IS ALMOST DONE. FABRIC IS ONLY @ THE ENDS BENEATH THE LG. P.P. RAP.
1115. SET-UP & START C GP-4. i.e. PERZ #4.
1130. E.T. CONTINUES TO TRANSPORT SOIL FM THE N. BORROW AREA TO BUILD THE TEMP. ACCESS FOR BOWSTER. MARNER DONE DRAWING C PERZ #4 TD = 12.5' BGS; BOTTOM OF SCRN 12' 5' SCREEN. 8.0' WFT. 12' INTO BIR.
1300. SCOTT HANSEN ON-SITE.
1315. SITE WALK & REVIEW BY SCOTT HANSEN, U.S. EPA.
1330. GABION WALL NEARLY DONE. SCOTT POINTED TO EXPOSED SLURRY ALONG GRADED CREEK BANK. E-T MAY HAVE EXPOSED A SMALL PORTION OF THE CUT-OFF WALL DURING THE CONSTRUCTION OF THE GABION WALL.
1400. E.T. HAS UNCOVERED THE DRAINAGE LAYER ALONG MOST OF THE PERIMETER.
1410. PRE PRE FINAL MTG NEXT TUES. @ 1100. RECENT SOIL SAMPLES FROM BPO1/BPO2 HAVE COME BACK AS NON-DETECT. THIS AREA WILL BE OVER-EXCAVATED & THEN BACK-FILLED.

9/13/01 THURSDAY

M. BRADY

1425 ACCORDING TO SCOTT HANSTEN, THE PRE-
PRE. FINAL MAY BE PUSHED BACK DUE
TO PRECENT EVENTS. THE PRE FINAL
IS SCHEDULED FOR SEPT. 27TH.

1500. E.T. GRUBBING & CLEARING ALONG THE
WEST ACCESS RD.

1515 BOWSER-MORNER SETS UP @ GP-1

1520 E.T. WILL REMOVE THE EXPOSED
L.F. M.T.L. & LINER M.T.L. NEAR THE
DRAIN PAD.

1530 GAS VENTS & PIEZOMETERS ARE YET TO
BE REPAIRED. TWO PIEZ. ARE TO BE
INSTALLED @ N. LOBE.

1600 DOWN 18' BGS @ GP-1, WRT NO BIP YET.

1610 SURVEYORS MARK LOCATION OF DRAIN.
DITCH & TIE OF LINER. LINER TO BE
EXTENDED @ DUCK ROAD.

1615 M. BRADY OFF SITE

S
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9/13/01

9/17/01 MONDAY

M. Brady

1115 LEFT OFFICE FOR SKINNER L.F.

1130. C CLICK CAMERA TO HAVE FILM DEV

1200. C SKINNER L.F. Sunny, Partly cloudy, 70°F
 GP-4, 11' BGS, 6' SCREEN, DRY, BIR @ 11'
 GP-4, 10.5' BGS, 10' SCREEN, DRY, BIR @ 10.5'
 PIEZ. 2, 13.3' BGS, 5' SCREEN, DRY, BIR @ 13.3'
 GP-1 19.5' BGS, 10' SCREEN, 12" WFT.
 BIR @ 19.5' BGS

1230. JOE KRUGER, COA, ON-SITE TO OVERSEE
 GAS PROBE & PIEZ. REPAIR WORK BY MIDAM.
 LINDER CO. SOME OF THE GAS VENTS ARE NOT
 BELOW THE TOP OF THE 3/4" TO 1 1/2"
 CLEAN STONE ALSO, SOME OF THE GAS VENT-
 TRENCHES ARE FULL OF WATER. GCL IS
 SATURATED

1245 THE BOWSER-MORNER DRILL RIG BROKE
 DOWN TWICE TODAY. THEN GOT STARTED @
 PIEZ. #6, BUT BROKE A HYDRAULIC LINE. THE
 RIG WAS SPRAYED W/ HYD FLUID. NO PIEZ,
 GAS PROBES OR WELLS INSTALLED TODAY.

1315. DRIVERS OFF-SITE TO PU PARTS TO REPAIR
 THE CMT SSD RIG. JENNY DOWNWARD, E.T.
 GEOLOGIST OFF-SITE.

1330. GREG PARKER, SITE MGR, E.T. ESTIMATES THAT
 MOST OF THE L.F. COVER WILL BE DONE BY
 WED. 19 SEPT. 01.

1400. THE SITE IS VERY DRY & THE DUMP TRUCKS
 ARE STIRRING UP A LOT OF DUST. E.T. OFF-
 SITE TO PU WATER FOR DUST SUPP.

1415 CALLED OM PATEL ABOUT THE PRE-PRF FINAL
 MTG. TOMORROW. HE'LL CALL SCOTT HANSEN FOR
 CONFIRMATION.

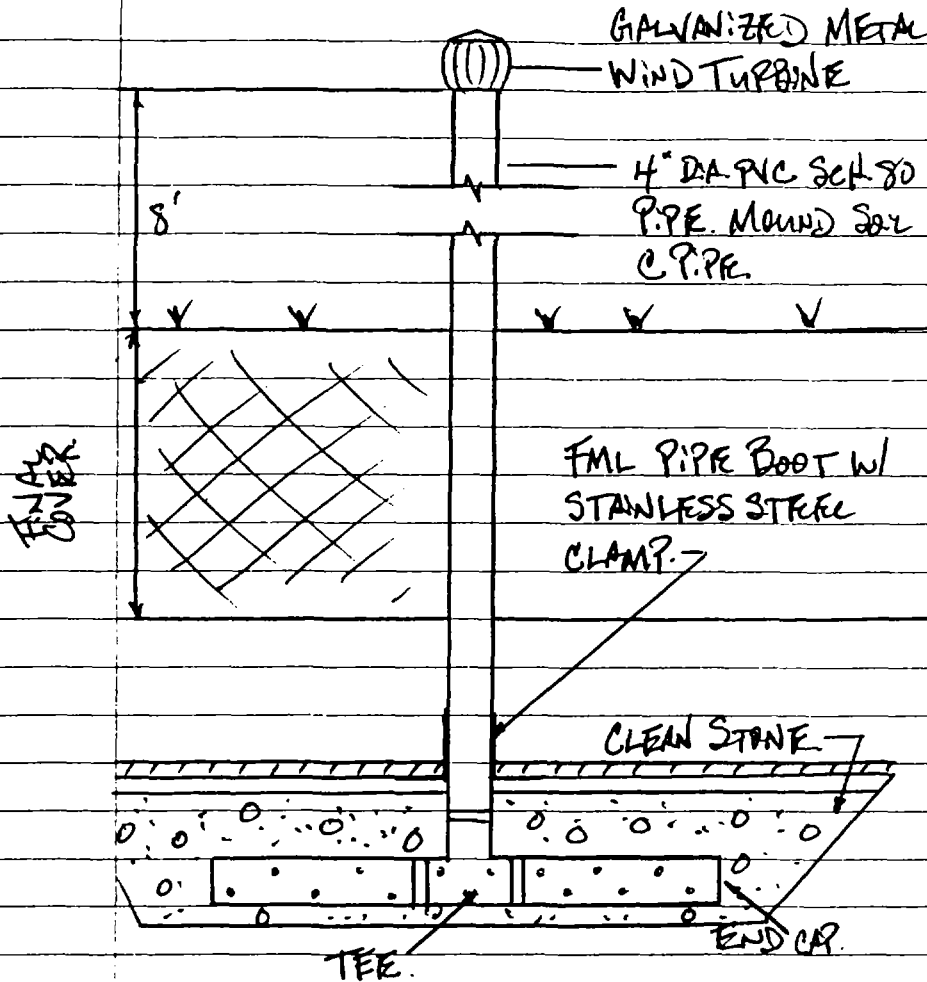
1430 E.T. IS PREPARING GAS VENTS & PIEZ. &

6

- 9/17/01 MONDAY

M. BRADY

USING A COMPACTOR ON THE CLEAN STONE
FILL MT'L.



PERFORATED P.I.P.E. $\frac{3}{8}$ " DRIN HOLES.
SPACED 4" TO 6" APART @ 90° TO EACH
OTHER

THE GAS VENT TRENCH SHOULD BE
2' WIDE, 6' LONG & 1' DEEP FILLED W/
 $\frac{3}{4}$ " TO 1 $\frac{1}{2}$ " CLEAN GRAVEL.

1500. CLEARING & GRUBBING COMPLETED ALONG
W. ACCESS RD.

1530. RAY SKINNER ON SITE. COMMENTS IN RE:
TO HIS PROPERTY

9/17/01 Monday

M. BRADY

RAY SAID THAT THE ELECTRICIANS USED HIS GUY WIRE & CONNECTORS TO INSTALL THE OVERHEAD ELECT. LINE.

RAY SAID THAT HIS BACK YARD IS NOW A SWAMP AS A RESULT OF THE L.F. STEEP DRAINAGE.

RAY SAID THAT MUD IS COATING HIS DRIVE & THE ENTRANCE TO CIN. DAY RD.

THE PRINCIPAL C THE SCHOOL ACROSS THE STREET HAS COMMENTED ABOUT THE MUD.

RAY SAID THAT SOMEONE BROKE INTO HIS SEAR HOUSE & STOLE ITEMS.

RAY SAID THAT HE WANTS PAYMENT \$5,000. FOR THE PROPERTY NOW OCCUPIED BY A UTILITY POLE.

THE ELECTRICIANS ARE USING SEVERAL OF HIS UTILITY POLES ONE OF THE UTILITY POLES IS LEANING TOO MUCH & MAY FALL.

TRUCK DRIVERS SHOULD HAVE WHEEL WASHES.

E.T. IS LEAVING TRASH AROUND & IN HIS ROLL-OFF BOXES \$250-\$300/ROLL-OFF E.T. & MIDAM EQUIP. IN WAY OF RAY'S ROLL-OFF BOXES.

RAY WANTS THAT NO SOIL FM THE SITE WILL BE USED TO BACKFILL AREA BPO1/BPO2.

1030. M. MIDAM. WELDING PIPE BOOTS & PATCHES AROUND GAS VENTS & PIEZ.

1700. M. BRADY OFF SITE

[Signature] 9/17/01

9/18/01 TUESDAY

M. BRADY

- 0945 LEFT THE OFFICE FOR SKINNER L.F.
1020. C. SKINNER L.F. LIGHT RAIN. THE SITE IS V. MUDDY. VARIOUS PEOPLE FROM THE BUTLER COUNTY ENB OFF. CE (BCDES) ON SITE FOR MTG W/ BEN BAKER & RON ROELKER FROM BUTLER COUNTY DEPT. OF ENV. SVCS. - SUE VANCE, MARK WITHERS, JIM BRADFORD, JACK THORNBURY, DENISE SHARMA, JOHN BAYTER, DICK HARDEN & MIKE FOLEY.
1030. DISCUSSION FOCUS ON \$ FEES, DISCHARGE PERMIT APPLICATION, DOCUMENT REVIEW, BASICALLY O: A SESSION.
1040. E.T. BOWSER MOWER INSTALLED. P.I.E. P-6. TD=13.5' BGS, SCREEN C 5' LONG, AUGER REFUSAL C 13.5' BGS, WATER C 5' TO 13.5'.
1100. THE DRILL RIG HAS A LOT OF HYDRAULIC FLUID SPLASHED ON IT FROM THE LINE LEAK YESTERDAY.
1115. DRILLERS DONE C P.I.E. P-1. TD=26' BGS, 15' LONG SCREEN, AUGER REFUSAL C 26' BGS. NO WATER. #5 SAND TO 13' BGS, #7 SAND TO 11' BGS. PULLED TO SURFACE.
1130. SPOKE W/ OM PATEL. SCOTT HANSEN WILL BE C THE SITE ON FRIDAY.
1200. LUNCH.
1310. DRILL FINISH UP C P.I.E. P-1 & SET-UP C GW-56.
1340. E.T. CONTINUES TO MOVE SOIL FM THE N. BORROW AREA TO CAP THE L.F. E.T. ATTACHES A FEW OF THE WIND TURBINES TO THE GAS VENTS.

9/18/01 TUESDAY

M. BRADY

MIDAM LINER OFF-SITE. DONE FOR THE DAY.
 MIDAM CLEANED UP THE EXCESS LINER
 MTL, BUT IT'S TOO WET TO WELD THE
 OPEN GAS VENTS ARE COVERED W/ PLASTIC
 SHEETING. ONLY ONE GAS VENT HAS BEEN
 REPAIRED SO FAR.

1410 E-T CONSTRUCTING DIVERSION BERMS ON L.F.

1430 BOWSER MORNER DOWN 14' BGS @ GW-SB.

DRILLERS NOT WASHING OR RINSING THE
 SPHT SPOONS AFTER EACH USE AS BEFORE.

1530 E-T CONSTRUCTING A CAP ON THE
 GABION WALL.

1615 BOWSER MORNER DOWN TO 26' BGS @ GW-SB.

1635 M. BRADY OFF-SITE.

1645 SPOKE W/ OM PATEL ABOUT RAY SKINNER'S
 COMPLAINTS. ALSO, OM WANTS WESTON
 OVERSIGHT DURING THE INSTALLATION
 OF P-F. WE NEED TO DETERMINE IF
 L.F. WASTE IS PRESENT.

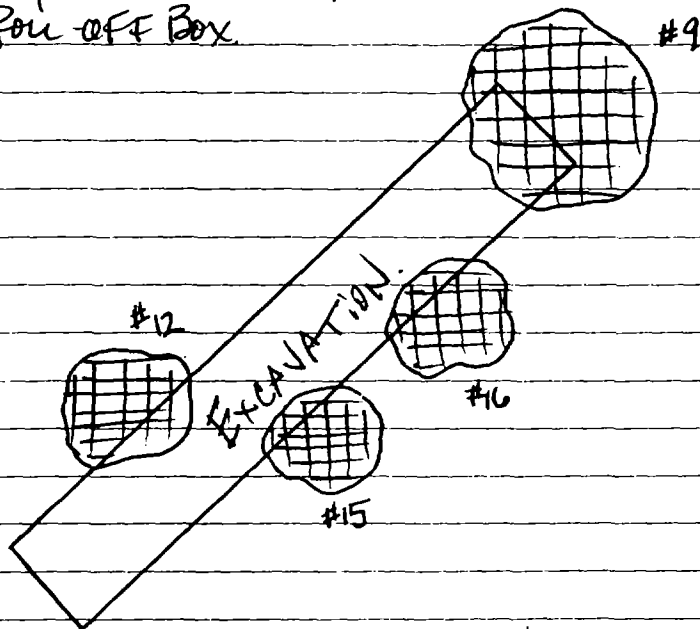
3
 9/18/01

9/19/01 WEDNESDAY.

M. BRAS

0915 LEFT OFFICE FOR SKINNER L.F.

0930. C CLICK CAMERA TO PLU PHOTOS

0955 C SKINNER L.F. RAIN & 70°F SPOKE W/
JENNY DOWNARD OF E.T ABOUT DRILLING
SHE'S NOT SURE IF THE DRILLERS WILL
WORK TODAY B/C OF RAIN.1030. C BP01/BP02 OVER-EXCAVATION IN PUDGE
4 AREAS OVER-EXCAVATED; 9, 12, 15 & 16
20 YARDS OF SOIL REMOVED & PLACED IN
A POU OFF BOX.1100. DRILL CUTTINGS ALSO PLACED IN THE POU
OFF BOX THE POU-OFF BOX IS LINED
W/ PLASTIC SHEETING. DRILLERS @ LUNC1110. SPOKE W/ GREG PARKER & AARON BENS
ABOUT RAY SKINNER RAY SPOKE TO GREG
ABOUT AREA BP-01/BP-02 & OTHER ISSUES
I.E. SIMILAR ISSUES AS ON MONDAY 17 SEP

1150. DRILLERS ON SITE

1215 E.T & DRILLERS INVESTIGATE GAS PROBE
LOCATIONS ON TOP OF L.F. NEAR THE
DUCK POND. THEY BELIEVE IT'S TOO MUD

9/19/01 WEDNESDAY.

M. BRADY

FOR THE ATV DRILL RIG.

1250. DRIVERS MOVE RIG TO PIER. P.3. THE LOCATION OF P.3 IS VERY NEAR IT #2 & THE FORCE MAIN TRENCH. JENNY DOWNLOADED CONTACTS FOR P.3. DRIVERS ARE ON STAND-BY TIME NOW. NOTE: GW-58 TD=335' BGS & 20' LONG SCREEN.

1315 RON FORKNER DOES NOT WANT P.3
INSTALLED AT THIS TIME.

1325 JENNY CONTACTS GREG PARKER ABOUT BUILDING A RAMP TO GAS PROBES NEAR THE DUCK POND. GREG WILL BE BACK ON SITE SHORTLY. HE SENT THE REST OF HIS CREW HOME B/C OF RAIN.

1345 DRIVERS STILL ON STAND-BY.

1415 E.T. DECIDES TO STOP WORK FOR THE DAY & SEND THE DRIVERS HOME.

1430 M. BRADY OFF SITE.

9/19/01

9/20/01 THURSDAY

M. BRADY

0915 LEFT OFFICE FOR SKINNER L.F.

0945 C. SKINNER L.F., PARTLY CLOUDY. THE SITE IS STILL V. MUDDY.

1015 DRIVERS DNE C GP-2, TD = 12' BGS, 6' SLOTTED PVC P:PE, #3 SAND TO 4' BGS. #3 & 5 MIX TO 2'. SATURATED 7'-12' BGS.

1020 BURGESS & NIPLE SURVEYORS CALCULATED TOTAL SQ. FT. OF LINER @ 4.651 FT².

1030. DRIVERS SET UP C GP-2.

1050 GP-2 WET C 14' BGS. SAND & GRAVEL.

1100 GP-2 REFUSAL @ 18' BGS. 10' SLOTTED PVC P:PE, #3 SAND TO 6' BGS, #3 & 5 MIX TO 4'.

1115 E.T. C DECON. PAD SIDE OF L.F. LAYED BACK THE LINER & REGRADED THE SOIL FOR MIDAM. E.T. ALSO MOVING SOIL FM THE N. BORROW TO THE ENTRANCE TO THE L.F. STOCK PILED FOR BACKFILL C AREA BPO1/BPO2.

1130. MIDAM. EXTENDING LINER NEAR THE DECON. PAD ON THE WEST SIDE OF THE L.F.

1215 E.T. MOVING SOIL FM THE N. BORROW AREA TO THE S. LOBE OF L.F. E.T. MAY BUILD A PLATFORM C THE S LOBE IN ORDER TO INSTALL P. 7.

1245 RAY SKINNER ON-SITE W/ THE FELT. FM HILBERT & BOPE TALKING ABOUT THE GUN WIRE ATTACHED TO RAY'S SCARF. HONOR RAY HAD COMMENTS AS BEFORE EARLIER IN THE WEEK.

1300. DRIVERS SET UP C P-5.

1320. MIDAM COMPLETING THE GAS VENT & P:PE. LINER REPAIR ALSO. THE SUB-SURFACE IS PREPARED FOR LINER NEAR THE DECON PAD.

11/20/01 THURSDAY.

M. BRADY

1400. E-T CONSTRUCTING WIRE BASKETS FOR DITCH CHECKS
1430. AREA BPO1/BPO2 WILL NOT BE BACKFILLED TODAY B/C THE HAUL TRUCKS WON'T ARRIVE.
- 1445 E-T MOVING SOIL FROM THE S. BORROW AREA TO THE TOP OF THE L.F.
1510. MIDAM & JOE KRUGER WAITING FOR A TRACK HOE TO MOVE LINER FROM THE LOWER AREA TO THE TOP OF L.F.
- 1515 DIST. NOT CHANGE IN SOIL/FILL @ P-5 @ 8-10 FT BGS. STRONG ODOR, POSSIBLY A SOLVENT @ 10-12' BGS @ P-5 & @ 12-14' BGS
1520. P-5 IS LOCATED ~ 5' S-SW OF THE ANCHOR TRENCH. WOOD FRAGMENTS & ODOR @ 12-14' BGS
1540. DOWN TO 17' BGS, 10' SCREEN, SAND TO 5' BGS.
1600. MIDAM DONE W/ THE GAS VENT & P.I.E. P.I.E. BOOTS & PATCHES. TESTING WILL HAVE TO BE COMPLETED TOMORROW WHEN A 'U' BOX IS AVAILABLE. MIDAM HAS INSTALLED THE 1ST GEOCOMP. LAYER EXTENSION. THEY'RE NOW WAITING FOR SOMEONE TO DELIVER THE GCL
- 1610 E-T COLLECTING THE MONTHLY SURFACE WATER SAMPLES ALONG THE EAST FORK OF MUD CREEK.
- 1620 E-T HAVING PROBLEMS MOVING THE GCL FROM THE TRENCH AREA TO THE TOP OF L.F.
1630. ELECTRICIAN & E-T REMOVE TRASH FM DUMPSTER
- 1640 M. BRADY OFF SITE

9/20/01

9/21/01 FRIDAY

M. BRADY

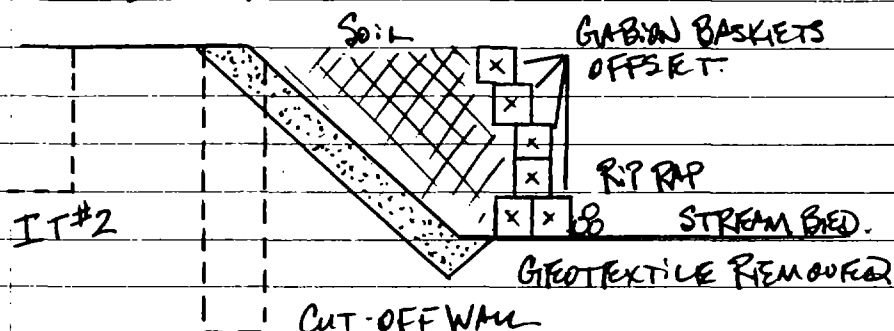
- 0915 LEFT OFFICE FOR SKINNER L.F.
- 0950 C SKINNER L.F. OVERCAST, 70 F
- MTG W/ SCOTT HANSEN IN PROGRESS, BEN BAKER, RON FORKNER, RICK WARWICK ON SITE.
- SITE WALK W/ SCOTT HANSEN & OTHERS.
- NEXT MTG IS THURS. 27 SEP. 01. @ 0830
- 1015 ELECT CONTR ON-SITE INSTALLING THE CONTROL BOX
- 1115 SCOTT + HANSEN OFF SITE.
- 1120 DRILLERS C P-3
- 1130 DOWN TO 32' BG'S @ P-3. S/G SATURATED
- 1140 E.T. WILL SET WELL @ 34' BG'S THEN 5' OF SAND
- 1210 DRILLERS LOST 2' TO 3' OF DEPTH B/C THE WELL CAME UP THAT MUCH INSIDE THE AUGERS. 6 BAGS #5 SAND, 1 BAG #7 SAND. GROUT 25 GAL WATER. 6 BAGS CEMENT, & 1 BAG BENTONITE GEL.
- 1220 TRUCKS SHOULD ARRIVE TODAY @ 1300 TO HAUL SOIL FOR BPO1/BPO2 BACKFILL
- 1230 BOWSER-MORNER 3RD MAN CONSTRUCTION WELL PADS
- 1300 HEAVY RAIN.
- 1315 MID AM. FINISHING UP W/ THE GAS VEN AND PIEZOMETERS & LINER.
- 1330 NOTE: BEN BAKER MENTIONED THAT THE PPP GROUP WOULD BE PAYING FOR WATER-LINE REPAIR WORK @ A NEIGHBORING PROPERTY. \$4,000+. HE ALSO MENTIONED PAYING MR SKINNER A FEW THOUSAND \$ FOR INCONVENIENCE AS A RESULT OF THE PROJECT.
- 1340 DRILLERS OFF SITE FOR THE DAY.

9/21/01 FRIDAY.

GW-66, P-7, GW-62A & GW-62B 4 FT
TO D₂

M. BRADY

1400 F.T. CONTINUES TO CONSTRUCT THE
GABION WALL. THE CREEK BED @ THE
WALL WAS LEVELED OUT & LARGE R.P. RAP
PLACED @ THE BASE



1430. 20,000 GAL OF PURGIE WATER STOPPED IN
THE FRAC TANK FM IT#2 IS DISPOSED IN
THE SANITARY SEWER

1445 POSSIBLE LOCATION FOR GW-62A & GW-62B
IS 25 TO 30' EAST OF THE SOUTH END
OF IT#2 & 80 TO 100' NORTH OF GW-61.

1500. NO TRUCKS ON SITE YET TO HAUL
SOIL TO BACKFILL TO BPO1/BPO2.

1545 TRUCKS MOVING SOIL FROM SOUTH BORROW
TO AREA NEAR DECON RAD FOR SOIL COVER.

1630. M. BRADY OFF SITE.

[Signature]
9/21/01

9/24/01 Mandan

M. Brady

- 0945 LEFT OFFICE FOR SKINNER L.F.
1020. C. SKINNER L.F. OVERCAST, LT. RAIN, 60°F.
- 1025 AREA BP-01/BP-02 IS BEING BACKFILLED
W/ SOIL FROM THE N. BORROW AREA.
1030. HILBERT & POPE ELECTRICIANS INSTALLING
THE CONTROL PANEL FOR THE FORCE MAIN.
1040. E.T. PERSONNEL CONSTRUCTING WIRE
BASKETS FOR DITCH CHECKS
1100. BOWSER-MORNER DRIVERS ATTEMPT
TO SET THE PIG C P-7 MIDWAY UP
THE SLOPE OF THE S LOBE. THE GROUND
IS EXTREMELY MUDDY & SOFT. THE
DRIVER IS CONCERNED THAT THE PIG
MIGHT SLIP B/C THE PLATFORM IS NOT
LEVEL ENOUGH.
1135. THE DRIVERS RUN OFF P-7 & TAKE AN
EARLY LUNCH. THEY'VE SET UP C
GW-10 AFTER LUNCH & SET UP C P-7
AFTER E.T. LEVELS THE PLATFORM.
- 1205 E.T. SETTING UP WATER LINES TO
PURGE IT#1 WATER INTO THE FRAC TANK.
- 1245 DRIVERS & E.T. DECIDE TO SET UP C
P-7 ONCE AGAIN. NOW THAT IT'S
LEVELLED OFF MORE.
- 1315 DOWN 6 FT. BGS. SAND & GRAVEL WET
- 1330 E.T. CONTINUES TO BACKFILL BP01/BP02.
26 TRUCK LOADS @ 16 1/2 yd³ PER LOAD
SO FAR
- 1415 DRIVERS ARE DOWN TO 12' BGS C P-7
1420. E.T. IS RE-GRADING THE SLOPE ALONG
THE W. ACCESS RD.
1430. GRADED SAND @ 14' BGS. NO WASH OR
PINSR FOR SPLIT SPOONS.

9/24/01 MONDAY

M. BRADY

- 1455 DRILLERS TO 18' BGS C P.7
JENNY DOWARD, E.T. GEOLOGIST, HAS THE
DRILLERS SET THE WELL. 10' SCREEN.
#5 SAND TO 6' BGS, #7 SAND TO 5' BGS.
1530. E.T. RECEIVED A FAX FROM RAY POTELKER,
PROJECT ENG. ABOUT THE RELOCATION OF
GW-02A & GW-02B. JENNY DOWARD
LOOKED @ THE SITE FOR CLEARANCE B/W
THE SLURRY WALL & THE CREEK BANK
1540. AREA BPO1/BPO2 WILL BE COMPLETELY
BACKFILLED TODAY. CRUSHED STONE
ORDERED FOR TOMORROW. ALI & WITZIG
CONDUCT DENSITY TESTS.
1600. RAY'S SISTER & STEP FATHER ON-
SITE TAKING PICTURES & VIDEO &
ASKING Qs. ABOUT BPO1/BPO2
1610. A SPILL (2QT TO 3QT) SPILL OF OIL
OCCURRED NEAR THE SITE TRAILER WHERE
COLUMBUS ED. CO. WAS MAINTENANCING A
BULL DOZER. RAY'S SISTER & STEP
FATHER TOOK PICTURES OF THE SPILL.
THEY ALSO MENTIONED A LAW SUIT.
1630. E.T. COMPLETELY CLEANED UP THE
SOIL WHERE THE SPILL OCCURRED. TWO
5-GAL BUCKETS WERE FILLED.
1640. E.T. CONTINUES TO PUMP WATER FM IT#1
TO IT#2 TO THE FRAC TANK. E.T.'S
DONE ON TOP OF LF W/ SOIL COVER
- 1650 M. BRADY OFF SITE

9/24/01

9/25/01. TUESDAY

M. BRADY

0930. LEFT OFFICE FOR SKINNER LF

0945. C CLICK CAMERA TO DROP OFF FILM

1015. @ SKINNER LF. CLOUDY, COOL & WET 55°F
 AREA B001/B002 IS COMPLETELY FILLED IN
 & COMPACTED. CRUSHED STONE HAS NOT
 BEEN ADDED TO THE SURFACE YET.

1030. VISITORS ON-SITE INCLUDE:

KATHY STOKER. 777-0334 TRUSTEE
 MARIA SKINNER POY, RAY'S SISTER
 FRED CARROLL, ENR. VFW POST COMM.
 DAVID MORGAN, STEP FATHER OF RAY.

0602B. MB. 9/25/01.

1045. G.W. 00. WATER C 5', S/G TO 8', BGS

T.H. @ 8', TDC 8', 5' SCREEN

G.W. 02B. TD = 10', TH @ 10', SAND
 SEAMS, 5' SCREEN, WET.

G.W. 02A. DEEP WELL, C 28' T.H.

1100. CONCERNS OF THE 4 VISITORS INCLUDE

- LARGE ROCKS ON TOP OF LF & AS
 PART OF THE SOIL COVER COULD
 PUNCTURE THE LINER.
- WORKERS NOT WEARING TYVEK SUITS &
 RESPIRATORS
- 55-GAL DRUMS NEAR DECON PAD.
 CONTAIN PURGIE WATER FROM THE LF.
- SEEP OR SPRING WATER IS CONTINUOUSLY
 FLOWING TOWARD & INTO MARIA SKINNER
 POY'S YARD. IT WAS NOT PRIOR TO START
 OF CONSTRUCTION. THE WATER IS COMING
 FM BENEATH THE LF CAP & IS
 CONTAMINATED.
- WHEN THE SEEP WATER IS DIVERTED
 IT'LL RUN DIRECTLY INTO THE CREEK

9/25/01 TUESDAY.

M. BRADY

& NOT THE INT. TRENCH / FORCE MAIN SYSTEM. MRS STOKER WANTS A WRITTEN SAN DESCRIBING THE SEEP WATER DIVERSION / COLLECTION TREATMENT PLAN. & A TIMELINE.

SHE WILL CHECK INTO THIS PERIODICALLY.

• BACKFILL SOIL FROM THE N. BORROW AREA IS CONTAMINATED. MARIA SKINNER

POW SAID THAT MANY TIERES ARE BURIED THERE. THE SOIL FM THIS AREA WAS USED TO BACKFILL BPO1 / BPO2.

• MR FRED CARROLL ESTIMATES THAT 14,000 GAL / DAY OR 10 GPM OF SEEP WATER FLOWS TOWARD MS. SKINNER'S HOME.

• MS. STOKER QUESTIONED WHY AN UPGRADIENT SHURRY WALL, NEAR THE DUCK POND, HAS NOT BEEN INSTALLED.

• MS STOKER ASKED WHY A WATER TRUCK WAS FUELED W/ POND WATER

• MR MORGAN ASKED IF THE DUCK POND WATER IS CONTAMINATED & WHY NOTHING HAS BEEN DONE W/ THE POND.

• MR CARROLL ASKED WHAT EXACTLY EARTH TECH DOES.

• MR MORGAN SUGGESTED THAT THE LARGE VOLVO HAUL TRUCKS ARE GOING TOO FAST ACROSS THE LF

1130 RICK WARWICK ANSWERED MOST Qs, BUT DEFERRED TO SCOTT HANSEN OFTEN.

THE 4 VISITORS HAD NO SAFETY EQ.

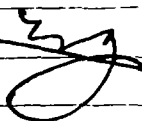
eg. HARD HAT OR SAFETY GLASSES.

1145 VISITORS OFF-STR. W/ PHOTOS & VIDEO.

9/25/01 TUESDAY.

M. BRADY.

- THE VISITORS SPOKE PRIMARILY W/
 RICK WARWICK, PROJ. MGR, EARTH TECH
- 1155 M. BRADY CONTACTED OM PATEL WHO,
 IN TURN, CONTACTED SCOTT HANSEN.
1200. CONFERENCE CALL W/ SCOTT & OM IN RE:
 TO THE QS ASKED BY VISITORS
- 1225 AARON BENSON COLLECTED ONE SOIL
 SAMPLE FM THE STOCKPILED SOIL
 NEAR THE BEG. OF THE LF. ALSO A DRP.
 AARON B. ALSO COLLECTED ONE SOIL
 SAMPLE FM CONT. SOIL AREA BPO1/BPO2
 BACKFILL & MS/MSD. SAMPLED FOR
 PARAMETERS LISTED IN TABLE 7.
- 1245 JENNY DOWNARD SAID SHE'D DEVELOP
 P.R.Z. & WEUS NEXT WK. SEVERAL
 TRUCK LOADS OF TYPE 'D' PACK APPROVED
 FOR THE DRAIN CHECKS.
- 1315 DRILLERS TO 32' BGS @ GW-G2A
1320. THE VEGETATED AREA ADJACENT TO
 IT#2 HAS BEEN REGRADED. FINAL
 GRADING OF THIS AREA SHOULD BE
 COMPLETED TODAY.
1330. HILVERT & POPE MAKING ELECTRICAL
 CONNECTIONS @ CONTROL PANEL & C
 IT#2
1400. GW-G2A TD=35' BGS, 15' SCREEN,
 BLR @ 35'
1415. TWO OF THE FOUR VISITORS SIGNED IN
 @ THE SITE TRAILER M. BRADY OFF-SITE

 9/25/01.

9/24/01 WEDNESDAY

M. BRADY

1030. LEFT OFFICE FOR SKINNER L.F.

1100. @ SKINNER L.F. CLOUDY. COOL. WET 65°F.

1115. AREA BPO1/BPO2 IS COMPLETELY FIRED IN
* GRAVEL COVERS THE SURFACE1145. FRAC TANK FLOW (GRAVITY) 18 GPM. APPROX
10,000 GAL FROM IT#3 TO IT#2 TO THE
FRAC TANK. FLOW FM THE FRAC TANK GOES
INTO A NEARBY MANHOLE @ CREEK LEVEL
THE MANHOLE IS PART OF THE SAN. SEWER
SYSTEM.1200. DUMP TRUCKS DELIVER #57 GRAVEL
@ AREA BPO1/BPO21210. E.T. CONTINUES TO PUMP WATER FROM IT#2
INTO THE FRAC TANK1215. BOWSER-MORNER ON SITE TO CONSTRUCT
THE DECON PADS FOR WELLS P1E2, & G1P31230. E.T. SURVEYING THE L.F. SURFACE &
SETTING STAKES. SOME AREAS OF THE
L.F. ARE TOO HIGH.1245. G.P. 3 IS LOCATED ABOUT 3 FEET NORTH
OF THE PRESENTLY SURVEYED PROPERTY
BOUNDARY. THE PROPER LOCATION OF
THE LINE & DRAINAGE DITCH ALONG
THIS LINE IS QUESTIONABLE.1305. E.T. IS ATTEMPTING TO UNCOVER THE
DRAINAGE LAYER SO THAT IT DAYLIGHTS
NEAR THE N. BORROW AREA E.T. IS
USING A BACKHOE & SHOVELS TO EXPOSE
THE DRAINAGE LAYER1325. SUPPLIES ARRIVE FOR THE LANDFILL
DRAINAGE SYSTEM1415. E.T. HAS DUG TEST PITS @ THE L.F.
TO EVALUATE THE SOIL COVER

9/24/01 WEDNESDAY

M. BRADY

1435 E.T. CONTINUES TO EXPOSE THE DRAW LAYER NEAR THE N. BORROW AREA. THEY'VE SLOPE THE N. WALL OF THE TRENCH BACK C 2:1. JAMES H. KEITH BIOLOGIST ON SITE

1450. E.T. IS REGRADING THE AREA NEAR THE FORMER ACCESS RD. C THE N. LOBE. THIS AREA WILL BE GRADED TO A 'V'-SHAPED SWALE.

1510. E.T. IS NOW PUMPING WATER FROM EXTRACTION WELL NO. 1 TO IT #2. AND THE WATER IN IT #2 IS BEING PUMPED INTO THE FRAC. TANK

1610 M. BRADY OFF SITE TO TOTAL SAFETY HAZCO. TO PU SUPPLIES.

9/24/01

9/27/01 THURSDAY

M. Brady

0830 LEFT FOR SKINNER L.F.

0830 @ SKINNER L.F. CLEAR, COOL - 50°F

0845 MTG STARTS. SCOTT HANSEN ADDRESSES THE GROUP. MIKE LAMMA, CHELLA, RON FORCKER, DU PATRI, TIM ANCH, RICK WARWICK, BEN BAKER, SCOTT HANSEN, CHUCK MELEN. & M. Brady

0850 RON FORCKER, PROJ ENG. COVERS ITEMS YET TO BE DONE: VEG. COVER, DRAINAGE PLAN. FINAL MTG WHEN RON FORCKER LETS SCOTT KNOW. WASTE TO BE COVERED ✓
 @ DUCK POND, IT NEED TO BE ✓
 CONNECTED. WAITING ON APPROVAL FM BUTLER COUNTY. PRO TERRA WAITING ON PERMIT NO. RON WAITING ON APPROVED ✓
 DRAIN. CONTROL PLAN, SCOTT H. RESPONDED THAT IT'S O.K. RELOCATE WOOD PILE, LOCKS & LABELS. FOR WELLS PIEZ. 13 & 14 NOT IN FENCING PLAN APPROVED ✓
 BPO1/BPO2 DONE, SOIL SAMPLE RESULTS DUE MONDAY OR TUES, TABLE 7.
 DISCHARGE PERMIT - DISCHARGE THRU OCT. 4. SO. FAR DISCHARGED 57,000 GALLONS IN LAST 6 DAYS, RAY SKINNERS UTILITY POLE, DRESS UP THE SLOPE ✓
 @ GABION WALL SLOPE WILL BE 2 1/2:1 ✓
 GW-Q2A & Q2B DONE, DEAD TREE BY DUCK POND TO BE TAKEN OUT TODAY, G.W. INT. SYST. - RUN PUMPS TODAY
 BY PRO TERRA FORMAL START-UP W/ MFG. @ LATER DATE. OCT. 2 PHONE TO BE HOOKED UP, X-FORMER IS OVER-TASKED & NEEDS REPLACED, LANDSCAPING

9/27/01 THURSDAY

M. BRADY

SPEEDING & MULCHING NEXT TUES.
 REMOVE GLUE TANK & PROCESS TANK.
 STEEP SAMPLING TODAY. POSSIBLY
 INSTALL A FRENCH DRAIN FOR STEEP.
 ROCKS REMOVED ON TOP OF LF, NO
 HUNTED, SYSTEM OPERATIONAL.
 REMOVE DECON PAD, REMOVE DRUMS
 C DECON PAD - 8-DRUMS, DEWFOUR
 WHEELS, WATER TO GO INTO IT.
 EXTEND PIER ON LF, DEMO 8 &
 FINAL CLEANUP.
 THE FINAL WILL BE 1 MONTH APPROX. FM
 TODAY.

0900. SITE WALK W/EVERYONE

0930. JENNY DOWNED SAMPLING THE STEEP
 WATER ALONG THE WEST ACCESS RD
 TABLE 5. TCL VOL, TCL SEMI-VOL, TM
 INORG (UNFILT/FILT), TM CYANIDE, BOD,
 TSS, OIL & GREASE, AMMONIA NIT, TDS.

0940. HILWERT & POPE WORKING ON CONTROL
 PANEL.

1015. SCOTT & OM REVIEW THE PIEZOMETERS
 ON TOP OF THE LF P-8 THRU P-12
 EACH OF THESE NEED A PROTECTIVE
 CASING. P-8 NEEDS STRAIGHTENED,
 P-9, P-10 & P-11 NEED EXTENDED.

1030. E-T RE-GRADING NEAR THE N. BORROW.
 SCOTT H. QUESTIONS RON FORKNER
 ABOUT INSTALLING P-13 & P-14.

1055. HILWERT & POPE, ELECTRICIAN. SHOWS THE
 GROUP HOW THE PUMP WORKS.

1110. SCOTT H. REVIEWS PUNCH LIST TASKS W/
 THE GROUP.

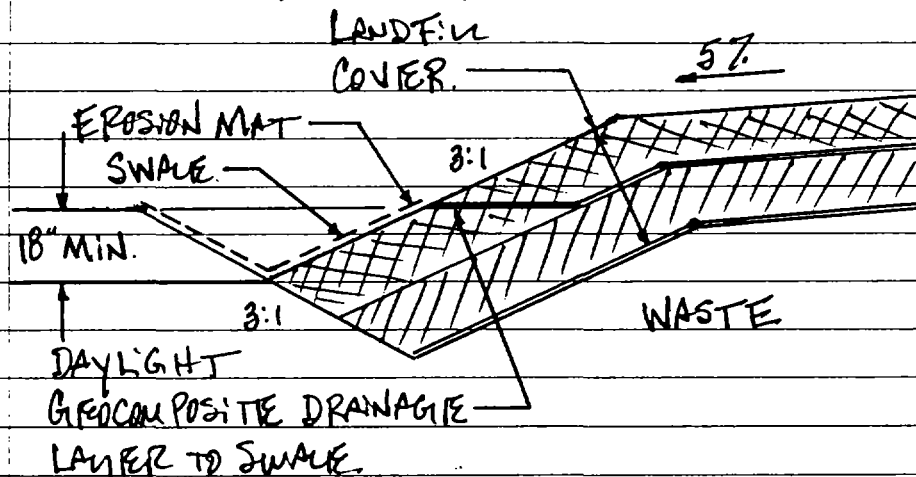
9/27/01. THURSDAY.

M. BRADY

1140. SCOTT H. & CHUCK OFF SITE

1200. DM PATEL OFF SITE

1300. E.T. CONTINUES TO REGRADE C N. BOTTOM

1320. FLOW FROM IT#2 TO FRAC. TANK C
60000 GALLONS.1350. E.T. REGRADING THE LF SURFACE TO
W/IN + 0.3 FT OF DESIGNED DRAINAGE.
MUCH OF THE SOIL COVER ON THE L.F. IS
TOO HIGH.1405. ATTORNEY FOR PPP ON SITE. SITE-WALK
W/ BEN BAKER1445. E.T. WILL EXPOSE THE DRAIN. LAYER ALONG
THE ENTIRE PERIMETER1510. E.T. CONTINUES TO PUMP WATER FROM IT#2
INTO THE FRAC. TANK.

1620. M. BRADY OFF SITE TO CHECK CAMERA

923
9/27/01

26

9/28/01 FRIDAY

M. BRADY

1230. LEFT OFFICE FOR SKINNER L.F.

1300. C SKINNER L.F. SUNNY. COOL 60°F

1320. E.T. IS REMOVING THE SOIL COVER FROM THE PERIMETER OF THE L.F. TO EXPOSE THE GEOTEXT. DRAINAGE LAYER.

1415. JASON SAID THAT PAYMENT FROM THE PPP GROUP IS BASED ON HOW MUCH SOIL IS REMOVED FROM THE BORROW AREAS. THEY'VE ALLOWED A TOLERANCE OF ± 0.3 FT FOR THE SOIL COVER.

1430. BULLDOZERS ON TOP OF THE L.F. ARE REGRADING THE SURFACE.

1510. THE DEAD TREES @ THE DUCK POND REMAIN & THE STOCKPILE OF TREES @ THE L.F. ENTRANCE HAVEN'T BEEN MOVED YET.

1620 M. BRADY OFF-SITE TO CHECK CAMERA

9/28/01

10/31/01 WEDNESDAY

M. BRADY

1215 LEFT OFFICE FOR SKINNER LF.

1245 C SKINNER LF. SUNNY, 75°F.

1300. E.T. DUG A TEMP. TRENCH OR CATCH BASIN @ THE BOTTOM OF THE W. ACCESS PD TO DUCT SEEP WATER A PUMP & HOSE IS USED TO DRAIN THE TRENCH INTO THE INTERCEPTOR TRENCH OBSERVATION WELL @ JT #3.

1320. WASTE MT'L STILL PRESENT @ THE DECON PAD. E.T.'S SUB. LPS IS PREPARING THE SOIL W/ A DISC & SPREADING GRASS SEED & STRAW. EROSION MATTING WILL BE INSTALLED ALONG THE SLOPES. IT APPEARS THAT LPS IS 1/4 DONE.

1345. E.T. HAS REMOVED ALL OF THE DEAD TREES @ THE LF. ENTRANCE & STOCKPILED THEM @ THE N. BORROW AREA.

1410 E.T. HAS CONSTRUCTED ADD'L SOIL BERMS AROUND THE SITE & IS MOVING SOIL FM THE SLOPE NEAR THE W. ACCESS PD. TO THE S. SLOPE OF THE LF.

1425. E.T. HAS ALSO CONSTRUCTED THE BERMS & DOWNSLOPE DRAIN LINES @ TWO AREAS.

1445 @ THE N. BORROW AREA. E.T. HAS UNCOVERED ADD'L WASTE MT'L, V. EVIDENT @ THE SURFACE. THEY'VE SPREAD SOME OF THE WASTE MT'L TO THE NORTH ALONG A DIVERSION BERM. THE WASTE MT'L APPEARS TO BE W/IN AN AREA OF 40' x 40'.

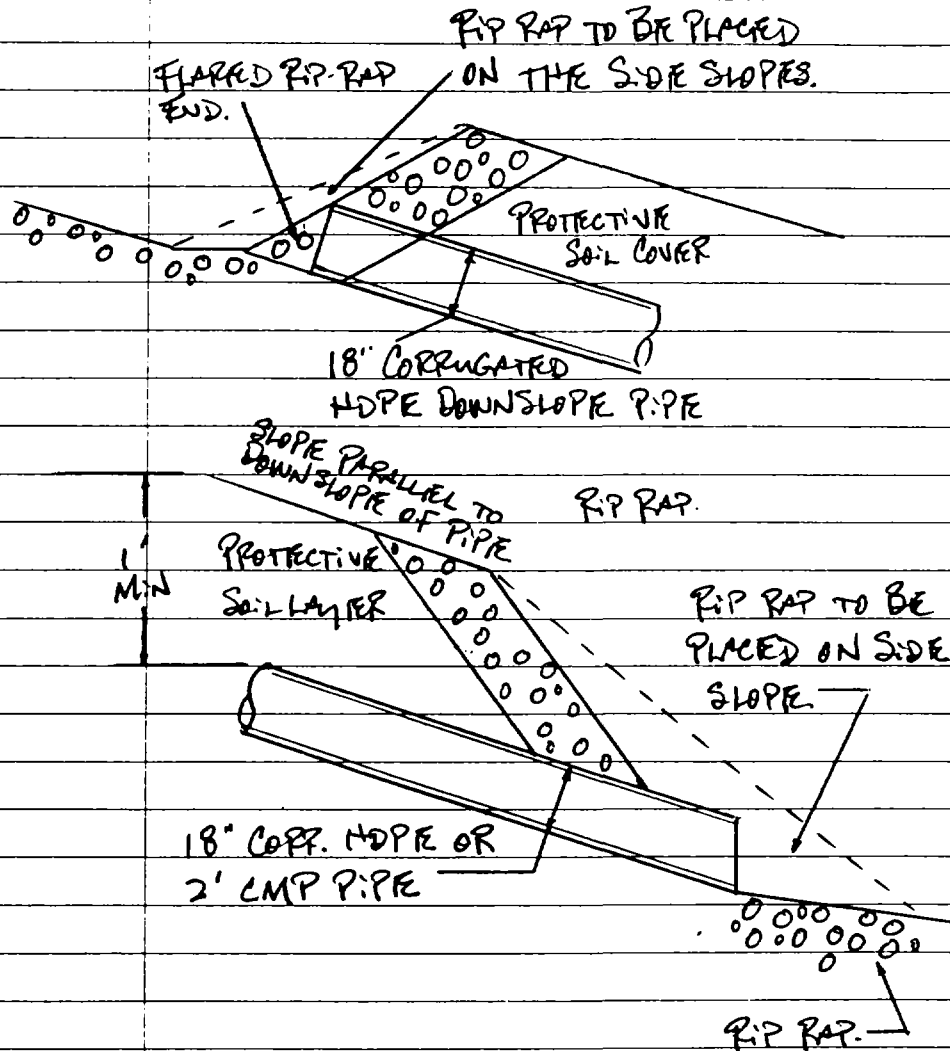
1510. E.T. IS MOVING ALL DEAD TREES FROM THE AREA SE OF THE N. BORROW TO THE NORTH

1520. SPOKE W/ THE SITE MGR, JASON GUENTHER ABOUT THE RECENTLY EXPOSED WASTE MT'L.

10/31/01 WEDNESDAY

M. BRAD

JASON SAID THAT A CONFERENCE CALL IS SCHEDULED FOR NEXT WED. TO DISCUSS THE WASTE MTL. NO DECISION YET.

DOWNSLOPE PIPE ENTRANCE PROFILE

HDPE PIPE HEADWALL AND CMP HEADWALL

1545 E.T.S SUB. LRS HIT GAS VENT @ W/SOME EQUIPMENT. BROKEN SEAL @ 'T'.

1605 OFF SITE TO CHECK CAMERA

1700 DONE

[Signature] 10/31/01

PHOTO-DOCUMENTATION

ATTACHMENT A SITE PHOTOGRAPHS

Photograph List

- Photograph 1: 10 August 2001 - Constructing the base and 1st row of the Gabion baskets wall along the creek bank, Skinner Landfill
- Photograph 2: 10 August 2001 - Covering and compacting the 55-gallon drums in the drum staging area, Skinner Landfill
- Photograph 3: 13 August 2001 - Deploying the gas vent liner material along the southeast landfill slope, Skinner Landfill
- Photograph 4: 13 August 2001 – Collecting monthly surface water, run-off samples, Skinner Landfill
- Photograph 5: 14 August 2001 - Connecting segments of the force main conduit, Skinner Landfill
- Photograph 6: 14 August 2001 - Force main vault and trench partially filled with run-off or leachate, Skinner Landfill
- Photograph 7: 14 August 2001 – Partially completed manhole No. 1, Skinner Landfill
- Photograph 8: 15 August 2001 - Limit of Linear Low Density Polyethylene (LLDPE) Liner along the east slope of the landfill, Skinner Landfill
- Photograph 9: 16 August 2001 - Landfill piezometer P-9 with a pipe boot, Skinner Landfill
- Photograph 10: 16 August 2001 - Measuring deployed Linear Low Density Polyethylene (LLDPE) Liner, Skinner Landfill
- Photograph 11: 17 August 2001 - Constructing the Gabion wall at the creek bank, Skinner Landfill
- Photograph 12: 17 August 2001 - Constructing the 4th and 5th rows of the Gabion wall, Skinner Landfill
- Photograph 13: 17 August 2001 - Installing a portion of the Force Main System near interceptor trench No. 3, Skinner Landfill
- Photograph 14: 20 August 2001 - Over-excavation at contaminated soil area BP-01/BP-02, Skinner Landfill

- Photograph 15: 27 August 2001 - Landfill FML Liner deployment and alignment, Skinner Landfill
- Photograph 16: 30 August 2001 – Erosion control at the East Fork of Mill Creek using Gabion baskets and fabric, Skinner Landfill
- Photograph 17: 30 August 2001 - Extrusion fillet welding on an LLDPE seam, Skinner Landfill
- Photograph 18: 4 September 2001 - Collecting a sample of the LLDPE liner for destructive sampling, Skinner Landfill
- Photograph 19: 4 September 2001 - Deploying the final Geocomposite drainage layer rolls, Skinner Landfill
- Photograph 20: 5 September 2001 - Constructing an anchor trench for the landfill FML liner near the decontamination pad, Skinner Landfill
- Photograph 21: 5 September 2001 – Earth Tech geologist describing the soil from the borehole at groundwater monitoring GW-59, Skinner Landfill
- Photograph 22: 5 September 2001 - Electrical contractor installing a utility pole along the main access road to the landfill, Skinner Landfill
- Photograph 23: 5 September 2001 - Geoprobe contractor and Earth Tech geologist collecting soil samples at contaminated soil area BP-01/BP-02, Skinner Landfill
- Photograph 24: 6 September 2001 – Drilling contractor installing a sandpack at groundwater monitoring well GW-63, Skinner Landfill
- Photograph 25: 10 September 2001 – Earth Tech geologist collecting surface water, run-off samples, Skinner Landfill
- Photograph 26: 12 September 2001 - Sampling the purge water from the top of the ‘frac’-tank, Skinner Landfill
- Photograph 27: 13 September 2001 – Installing the final clay cover and topsoil near the Duck Pond Skinner Landfill
- Photograph 28: 13 September 2001 - Grubbing & clearing along the west access road, Skinner Landfill
- Photograph 29: 13 September 2001 - Drilling contractor and Earth Tech geologist installing gas probe GP-1, Skinner Landfill

- Photograph 30: 17 September 2001 - Repairing the FML liner and gas vent boot at GV-6, Skinner Landfill
- Photograph 31: 17 September 2001 - Repairing the gas vent boot at GV-7, Skinner Landfill
- Photograph 32: 18 September 2001 - Broken piezometer P-8 as a result of FML expansion and contraction against the PVC piezometer casing, Skinner Landfill
- Photograph 33: 18 September 2001 - Drilling contractor installing piezometer P-1, Skinner Landfill
- Photograph 34: 19 September 2001 - Final over-excavation at contaminated soil area BP-01/BP-02, Skinner Landfill
- Photograph 35: 19 September 2001 - Soil diversion berm for surface drainage, looking southeast, Skinner Landfill
- Photograph 36: 21 September 2001 - Constructing a soil cover over the top of the Gabion basket wall, Skinner Landfill
- Photograph 37: 21 September 2001 - Adding rip-rap to the base of the Gabion wall for added erosion control, Skinner Landfill
- Photograph 38: 21 September 2001 - Installing the soil cover over the FML liner extension near the decontamination pad, Skinner Landfill
- Photograph 39: 24 September 2001 - Backfilling & compacting contaminated soil area BP-01/BP-02, Skinner Landfill
- Photograph 40: 24 September 2001 - Completing electrical connections at the instrumentation & control (I&C) panel, Skinner Landfill
- Photograph 41: 24 September 2001 - Removing soil impacted by a hydraulic oil spill near the site trailer, Skinner Landfill
- Photograph 42: 25 September 2001 - The completed Gabion wall along the East Fork of Mill Creek, looking northwest, Skinner Landfill
- Photograph 43: 25 September 2001 - Drain line coming from the on-site 'frac' tank to the off-site sanitary sewer, Skinner Landfill
- Photograph 44: 25 September 2001 - Drilling to depth at Groundwater Monitoring Well GW-62A (background), GW-62B (with protective casing) is in the foreground, Skinner Landfill
- Photograph 45: 25 September 2001 - Seep or spring water (lower left) along the west access road Skinner Landfill

- Photograph 46: Backfilling contaminated soil area BP-01/BP-02, Skinner Landfill
- Photograph 47: 26 September 2001 - Contaminated soil area BP-01/BP-02 completely backfilled and compacted, with gravel as a surface cover, Skinner Landfill
- Photograph 48: 26 September 2001 – Exposing the Geocomposite drainage layer along the perimeter of the landfill, Skinner Landfill
- Photograph 49: 26 September 2001 – Gas probe GP-3 (in the background with protective casing and guard posts) installed beyond the Skinner Landfill property boundary, Skinner Landfill
- Photograph 50: 26 September 2001 - Graded slope of landfill north of interceptor trench No. 2, Skinner Landfill
- Photograph 51: 27 September 2001 - Sampling the seep or spring water on the west side of the landfill, Skinner Landfill
- Photograph 52: 3 October 2001 - Construction materials for the down-slope drainage, Skinner Landfill
- Photograph 53: 3 October 2001 – Down-slope drainage line, Skinner Landfill
- Photograph 54: 3 October 2001 - Seeded and fertilized landfill surface, looking southeast, Skinner Landfill
- Photograph 55: 3 October 2001 - Trench installed to capture the seep or spring water looking southeast, Skinner Landfill



10 August 2001 - Constructing the base and 1st row of the Gabion baskets wall along the creek bank, Skinner Landfill



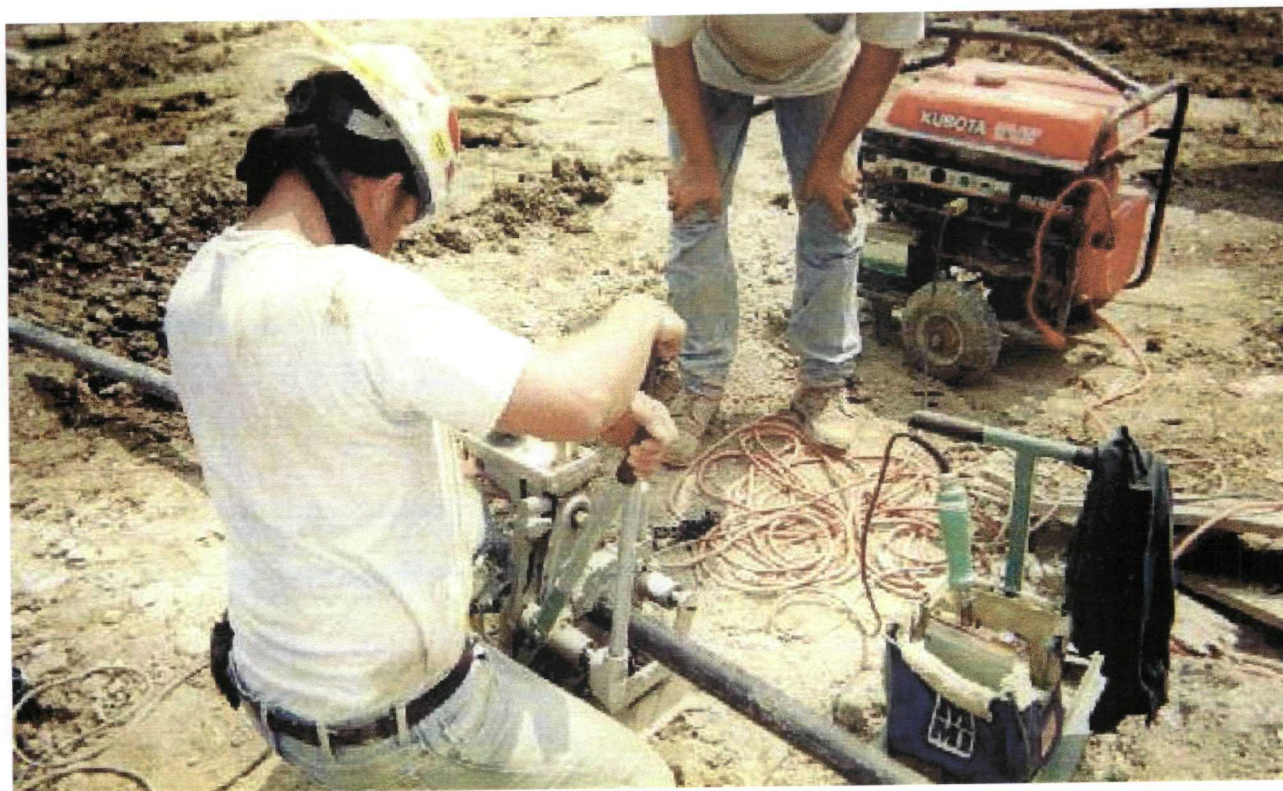
10 August 2001 - Covering and compacting the 55-gallon drums in the drum staging area, Skinner Landfill



13 August 2001 - Deploying the gas vent liner material along the southeast landfill slope, Skinner Landfill



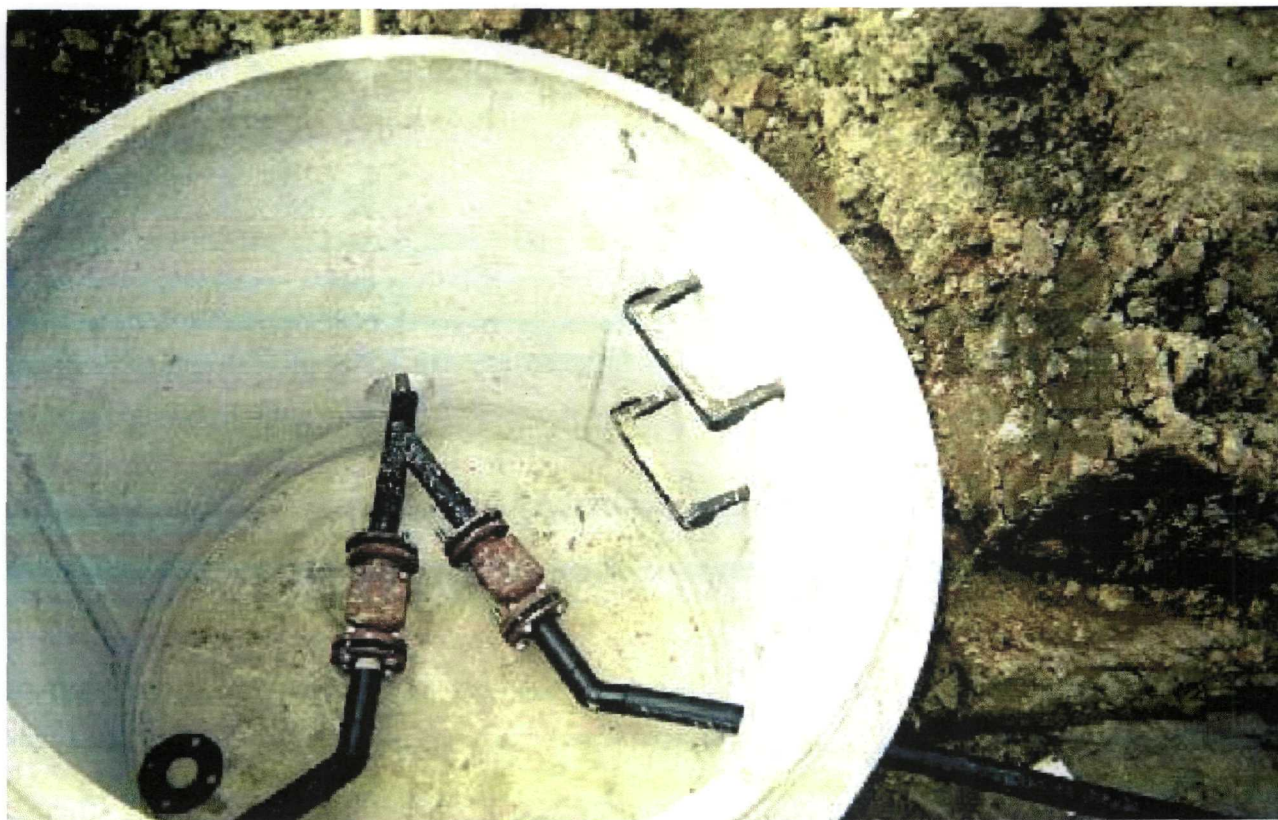
13 August 2001 - Collecting monthly surface water, run-off samples, Skinner Landfill



14 August 2001 - Connecting segments of the force main conduit, Skinner Landfill



14 August 2001 - Force main vault and trench partially filled with run-off or leachate, Skinner Landfill



14 August 2001 – Partially completed manhole No. 1, Skinner Landfill



15 August 2001- Limit of Linear Low Density Polyethylene (LLDPE) Liner along the east slope of the landfill, Skinner Landfill



16 August 2001 - Landfill piezometer P-9 with a pipe boot, Skinner Landfill



16 August 2001 - Measuring deployed Linear Low Density Polyethylene (LLDPE) Liner, Skinner Landfill



17 August 2001 - Constructing the Gabion wall at the creek bank, Skinner Landfill



17 August 2001 - Constructing the 4th and 5th rows of the Gabion wall, Skinner Landfill



17 August 2001 - Installing a portion of the Force Main System near interceptor trench No. 3, Skinner Landfill



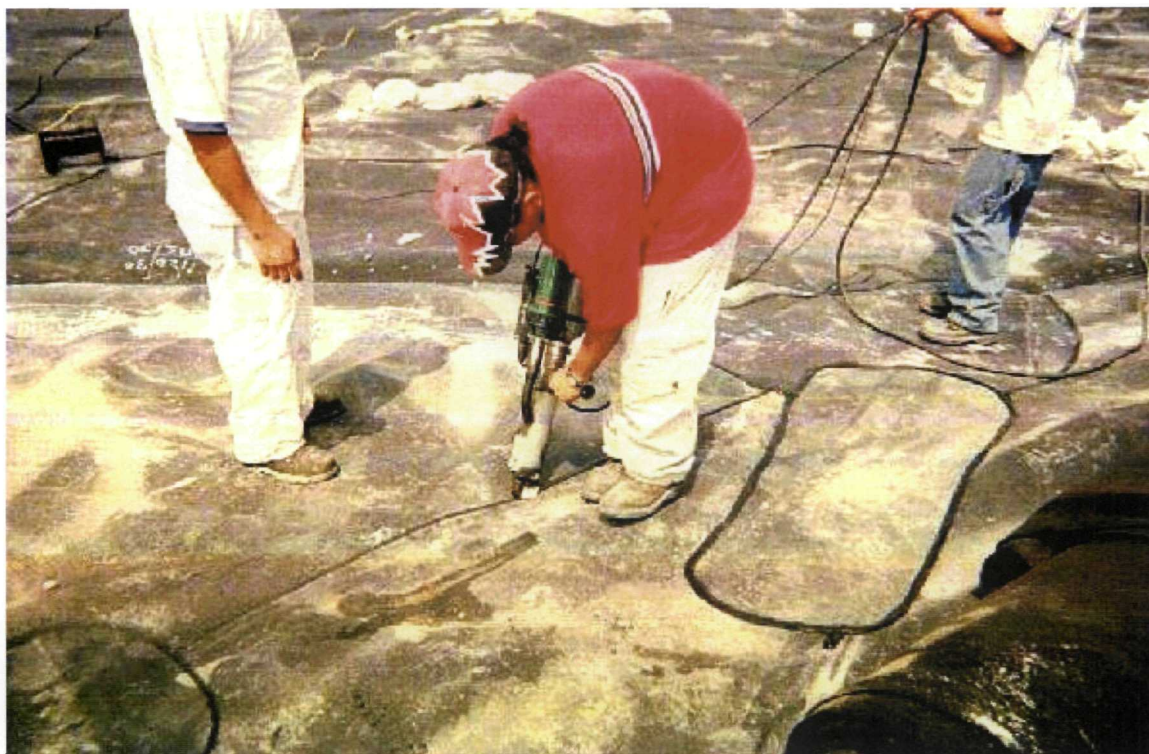
20 August 2001 - Over-excavation at contaminated soil area BP-01/BP-02, Skinner Landfill



27 August 2001 - Landfill FML Liner deployment and alignment, Skinner Landfill



30 August 2001 – Erosion control at the East Fork of Mill Creek using Gabion baskets and fabric, Skinner Landfill



30 August 2001 - Extrusion fillet welding on an LLDPE seam, Skinner Landfill



4 September 2001 - Collecting a sample of the LLDPE liner for destructive sampling, Skinner Landfill



4 September 2001 - Deploying the final Geocomposite drainage layer rolls, Skinner Landfill



5 September 2001 - Constructing an anchor trench for the landfill FML liner near the decontamination pad, Skinner Landfill



5 September 2001 – Earth Tech geologist describing the soil from the borehole at groundwater monitoring GW-59, Skinner Landfill



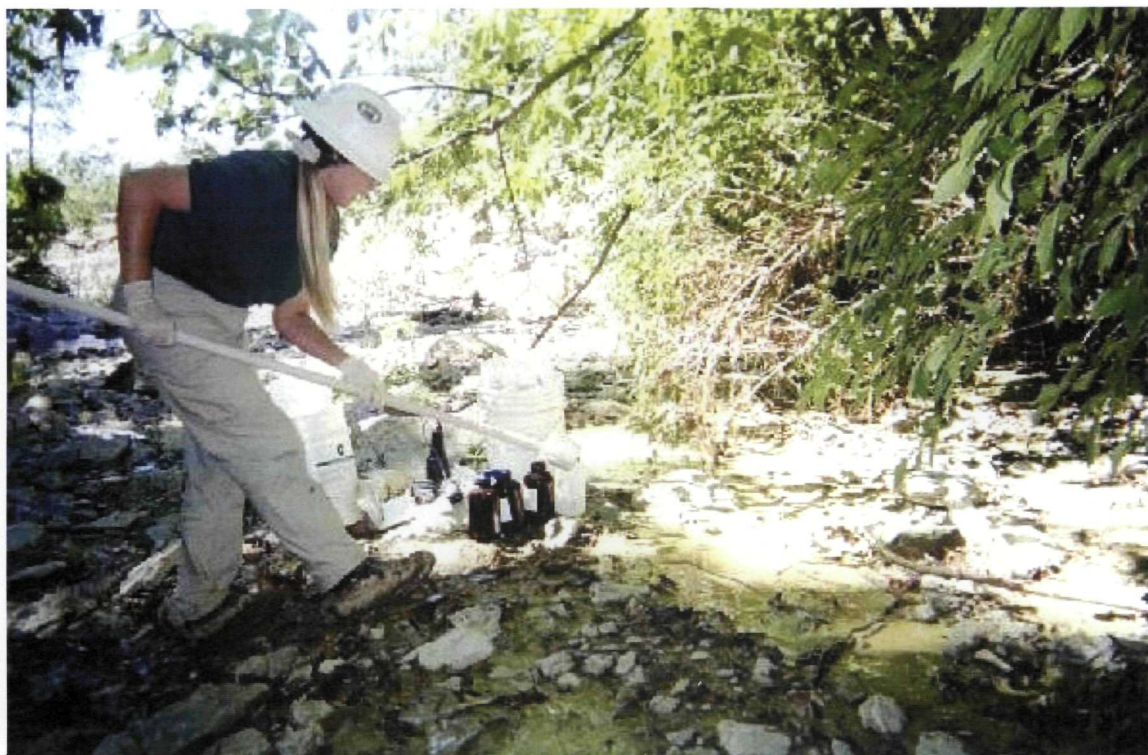
5 September 2001 - Electrical contractor installing a utility pole along the main access road to the landfill, Skinner Landfill



5 September 2001 - Geoprobe contractor and Earth Tech geologist collecting soil samples at contaminated soil area BP-01/BP-02, Skinner Landfill



6 September 2001 - Drilling contractor installing a sand pack at groundwater monitoring well GW-63, Skinner Landfill



10 September 2001 – Earth Tech geologist collecting surface water, run-off samples, Skinner Landfill



12 September 2001 - Sampling the purge water from the top of the frac-tank, Skinner Landfill



13 September 2001 – Installing the final clay cover and topsoil near the Duck Pond, Skinner Landfill



13 September 2001 - Grubbing & clearing along the west access road, Skinner Landfill



13 September 2001 – Drilling contractor and Earth Tech geologist installing gas probe GP-1, Skinner Landfill



17 September 2001 - Repairing the FML liner and gas vent boot at GV-6, Skinner Landfill



17 September 2001 - Repairing the gas vent boot at GV-7, Skinner Landfill



18 September 2001 - Broken piezometer P-8 as a result of FML expansion and contraction against the PVC piezometer casing, Skinner Landfill



18 September 2001 - Drilling contractor installing piezometer P-1, Skinner Landfill



19 September 2001 - Final over-excavation at contaminated soil area BP-01/BP-02, Skinner Landfill



19 September 2001 - Soil diversion berm for surface drainage, looking southeast, Skinner Landfill



21 September 2001 - Constructing a soil cover over the top of the Gabion basket wall, Skinner Landfill



21 September 2001 - Adding rip-rap to the base of the Gabion wall for added erosion control, Skinner Landfill



21 September 2001 - Installing the soil cover over the FML liner extension near the decontamination pad, Skinner Landfill



24 September 2001 - Backfilling & compacting contaminated soil area BP-01/BP-02, Skinner Landfill



24 September 2001 - Completing electrical connections at the instrumentation & control (I&C) panel, Skinner Landfill



24 September 2001 - Removing soil impacted by a hydraulic oil spill near the site trailer, Skinner Landfill



25 September 2001 – The completed Gabion wall along the East Fork of Mill Creek, looking northwest, Skinner Landfill



25 September 2001 - Drain line from coming from the on-site 'frac' tank to the off-site sanitary sewer, Skinner Landfill



25 September 2001 – Drilling to depth at Groundwater Monitoring Well GW-62A (background), GW-62B (with protective casing) is in the foreground Skinner Landfill



25 September 2001- Seep or spring water (lower left) along the west access road, Skinner Landfill



26 September 2001 - Backfilling contaminated soil area BP-01/BP-02, Skinner Landfill



26 September 2001 - Contaminated soil area BP-01/BP-02 completely backfilled and compacted, with gravel as a surface cover, Skinner Landfill



26 September 2001 - Exposing the Geocomposite drainage layer along the perimeter of the landfill, Skinner Landfill



26 September 2001 - Gas probe GP-3 (in the background with protective casing and guard posts) installed beyond the Skinner L.F. property boundary, Skinner Landfill



26 September 2001 - Graded slope of landfill north of interceptor trench No. 2, Skinner Landfill



27 September 2001 - Sampling the seep or spring water on the west side of the landfill, Skinner Landfill



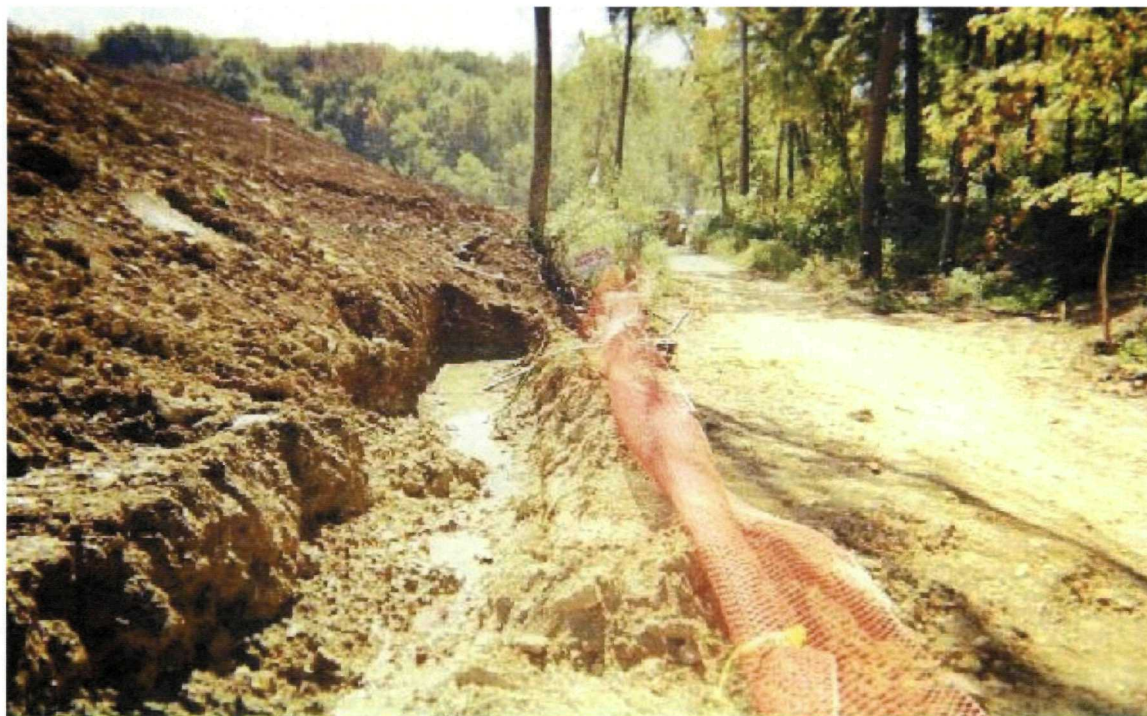
3 October 2001 - Construction materials for the down-slope drainage, Skinner Landfill



3 October 2001 - Down-slope drainage line, Skinner Landfill



3 October 2001 - Seeded and fertilized landfill surface, looking southeast, Skinner Landfill



3 October 2001 - Trench installed to capture the seep or spring water, looking southeast, Skinner Landfill